

NEAR AMBIENT TEMPERATURE EFFUSION CELL NATC



The CreaTec near ambient temperature effusion cell NATC is a unique design to evaporate organic materials in the temperature range between -50 °C and 300 °C.

The precise temperature regulation of the (± 0.01 deg) allows very accurate beam flux control.

The fuzzy logic control loop ensures, that the actual temperature does not rise above the setpoint, which is essential for some organic materials.

Technical Data

Standard :

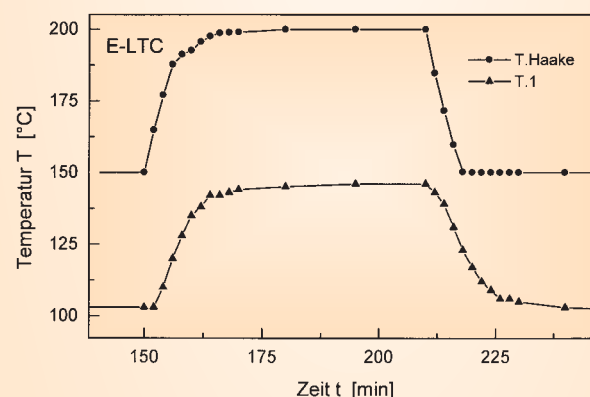
Type	NATC
Heating system	circulated fluid
Temperature range	-50 °C ... 300 °C
Temperature stability	≤ 0.01 K
Max. outgas temp	300 °C
Bakeout temperature	250 °C
Conditioning	Heated to maximum temperature with and without crucible
Shipping	Stainless steel container with valve

Custom :

Flange size	CF 40/ CF 63
Max. outer diameter	38 mm
Length	As specified
Heating system	Different fluids
Thermocouple type	Type K / WRe 5%-26%
Crucible material	PBN / PGR / W / Ta / quartz
Crucible capacity	5 - 39 ccm

Options :

Integrated Shutter	Optional
Other dimensions	As specified



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