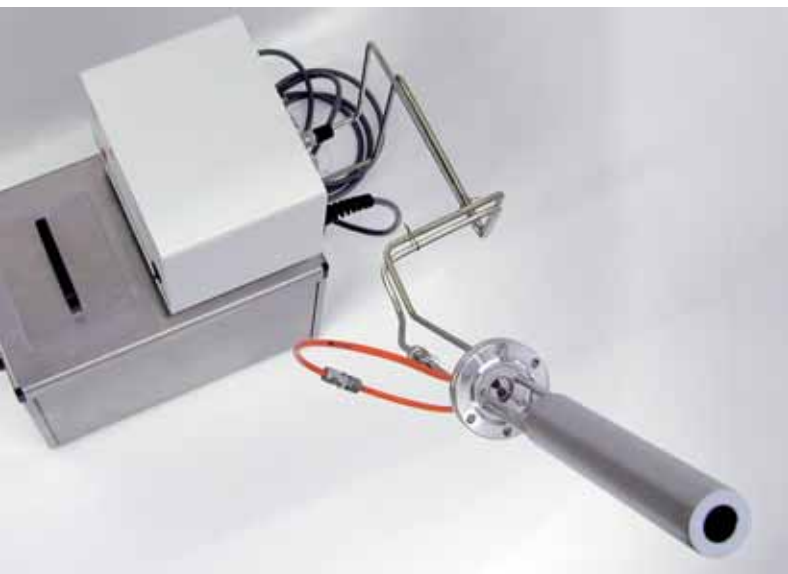


# EFFUSION CELL FOR OLED

## NATC



CreaTec's near-ambient temperature effusion cell NATC is designed to evaporate materials like organics etc. in the temperature range from -50 °C to 300 °C.

The precise temperature control ( $\pm 0.1$  K) together with an agile response allows growth runs with highly accurate deposition flux profiles.

The fuzzy logic control loop reliably suppresses temperature overshoot when approaching setpoints, a feature that is of paramount importance for certain organic materials.

## Technical Data

### Standard:

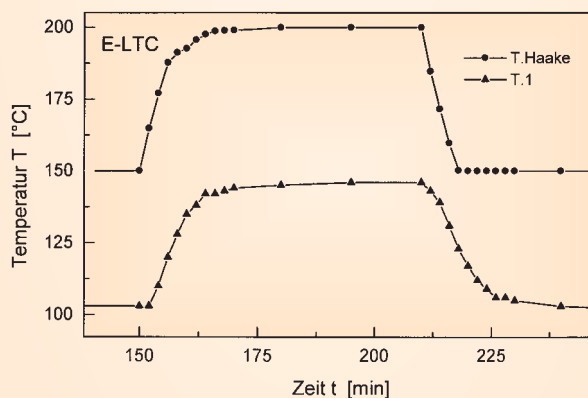
Type . . . . .	NATC
Heating system . . . . .	Circulated fluid
Temperature range . . . . .	-50 °C ... 300 °C
Temperature stability . . . . .	$\pm 0.1$ K
Max. outgas temp. . . . .	300 °C
Bakeout temperature . . . . .	250 °C
Conditioning . . . . .	Heated to maximum temperature with and without crucible
Shipping . . . . .	Stainless steel container with valve

### Custom:

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

### Options:

Integrated shutter . . . . .	Optional
Other dimensions . . . . .	As specified
Hot lip heater . . . . .	Optional





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**NATC**

Special design for stable and precise flux control  
of high pressure organic compounds and other  
high vapor pressure materials

*Designed and  
manufactured by CreaTec  
Fischer & Co. GmbH*

