

# Linear Effusion Cell (L-EC)

The Linear Effusion Cell (L-EC) is designed for continuous evaporation deposition on substrate tapes. According to requirements, the cell can be optimized regarding homogeneity, source material, width of the tape, etc. A water cooling around the heating system, allows processes at higher temperatures without affecting surroundings.

## Available versions

- Single filament
- Dual filament



TYPE	L-EC	
TEMPERATURE RANGE	200 – 1400 °C	
HEATING SYSTEM	wire filament, radiation heating	
TEMPERATURE STABILITY	± 0.1 °C depending on the PID controller	
THERMOCOUPLE	type C	
MAX. OUTGAS TEMP.	1400 °C	
MAX. POWER	1500 W	200 cc crucible
MAX. CURRENT	14 A	200 cc crucible
BAKE-OUT TEMP.	250 °C	
DESIGN	as specified	
OPTIONAL		
COOLING	integrated water cooling	
CRUCIBLE SIZE	200 cc	others on request
CRUCIBLE MATERIAL	PBN   satainless steel	<a href="#">CRUCIBLE DATA SHEET</a>
POWER SUPPLY	PS - S1500	
CABLE	length 6 m (bakeable)	others on request

## Elements to be evaporated

H																				He
Li	Be											B	C	N	O	F	Ne			
Na	Mg											Al	Si	P	S	Cl	Ar			
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr			
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe			
Cs	Ba	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn			
Fr	Ra	Lr	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Uut	Fl	Uup	Lv	Uus	Uuo			

La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Hb
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No

\* compounds for CIGS  
Evaporation Guide of Elements 

## How to order?

Individual Cell Request 

SUPPORT	support@createc.de
APPROVAL	Drawing will be provided before manufacturing
CONDITIONING	Heated to maximum temperature with and without crucible
DOCUMENTATION	User manual will be provided with the delivery
SHIPPING	In stainless steel container under dry nitrogen
SERVICE	On request, a general overhaul can be performed after long-term use

