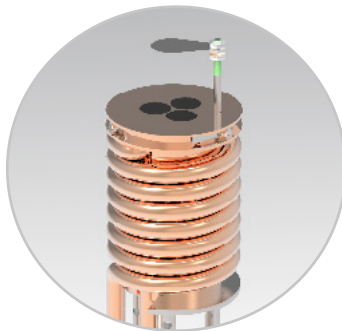


Ultra Low Temperature Cell (ULTC)

sales@createc.de | www.createc.de

The Ultra Low Temperature Cell evaporates various materials in a very low temperature range. The crucible is surrounded by a cooling coil to reach ultra low temperatures and a heating element to control the flux of the condensated material. The coil is cooled by dry nitrogen.



TYPE	ULTC
TEMPERATURE RANGE	-60 to 30 °C
HEATING SYSTEM	wire filament radiation heating
COOLING	copper coil
COOLING MEDIUM	dry nitrogen @ 0,6 - 1 bar
TEMPERATURE STABILITY	≤ 0,1 °C
THERMOCOUPLE	type K
MAX. POWER	50 W
MAX. CURRENT	3 A
BAKE-OUT TEMP.	250 °C
FLANGE SIZE	DN 40 CF 63 100 160
MAX. OUTER DIAMETER	38 mm
CRUCIBLE SIZE	10 cc
CRUCIBLE MATERIAL	quartz CRUCIBLE DATA SHEET
SHUTTER	integrated rotary shutter manual, pneumatical or eletrical actuation SHUTTER DATA SHEET
POWER SUPPLY	PS - S800 w/ Eurotherm controller type 3504

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

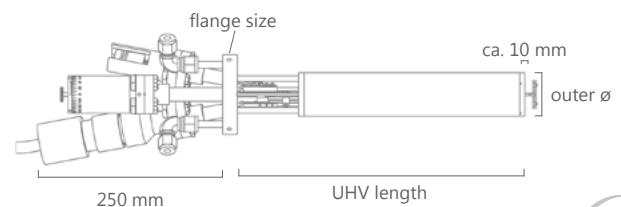
La	Ce	Pr	Nd	Pm	Sm	Eu	Gd	Tb	Dy	Ho	Er	Tm	Yb
Ac	Th	Pa	U	Np	Pu	Am	Cm	Bk	Cf	Es	Fm	Md	No

* special OLED compounds

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

