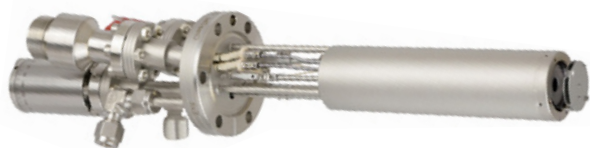


The Dual Filament Cell evaporates materials with medium vapor pressure. To prevent material condensation, an additional heating unit with an extra thermocouple is installed near the orifice. This allows independent adjustment of the orifice temperature and the main temperature of the effusion cell.

Available versions

- DFC made from molybdenum
- Downward looking | Face-down version
- DFC with flip-shutter
- Multiple cells



TYPE	DFC	
TEMPERATURE RANGE	bulk zone	50 – 1400 °C
	hot-lip zone	50 – 1400 °C
HEATING SYSTEM	wire filament radiation heating	
TEMPERATURE STABILITY	± 0.1 °C depending on the PID controller	
THERMOCOUPLE	two independent type C	
MAX. OUTGAS TEMP.	bulk zone	1400 °C
	hot-lip	1400 °C
MAX. POWER	bulk zone	360 W
	hot lip	120 W
MAX. CURRENT	bulk	12 A
	hot lip	6 A
BAKE-OUT TEMP.	250 °C	
FLANGE SIZE	DN 40 CF 63 100 160	
MAX. OUTER DIAMETER	38 mm 61 mm	
MIN. UHV LENGTH	180 mm	
OPTIONAL		
COOLING	integrated water cooling	
	separated cooling jacket	
COOLING DATA	water consumption:	1l/min
	temperature:	5 - 15 °C
	connection:	∅ 6 mm
CRUCIBLE SIZE	5 - 800 cc	
CRUCIBLE MATERIAL	PBN PGR W Ta Al ₂ O ₃ Mo VC Quartz	
CRUCIBLE INSERT	on request	
SHUTTER	integrated rotary shutter	
	manual, pneumatical or electrical actuation	
POWER SUPPLY	PS - D800 w/ Eurothermcontroller type 3504	
CABLE	length 6 m (bakeable)	

Elements to be evaporated

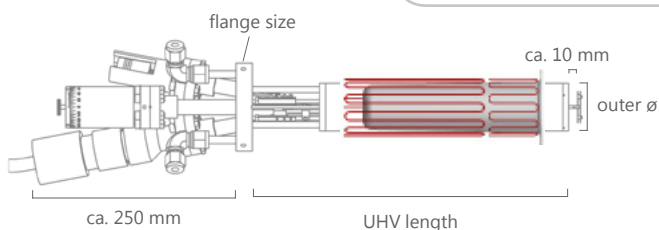
H																			He	
Li	Be																			
Na	Mg																			
K	Ca	Sc	Ti	V	Cr	Mn	Fe	Co	Ni	Cu	Zn	Ga	Ge	As	Se	Br	Kr			
Rb	Sr	Y	Zr	Nb	Mo	Tc	Ru	Rh	Pd	Ag	Cd	In	Sn	Sb	Te	I	Xe			
Cs	Ba	Lu	Hf	Ta	W	Re	Os	Ir	Pt	Au	Hg	Tl	Pb	Bi	Po	At	Rn			
Fr	Ra	Lr	Rf	Db	Sg	Bh	Hs	Mt	Ds	Rg	Cn	Uut	Fl	Uup	Lv	Uus	Uuo			

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

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