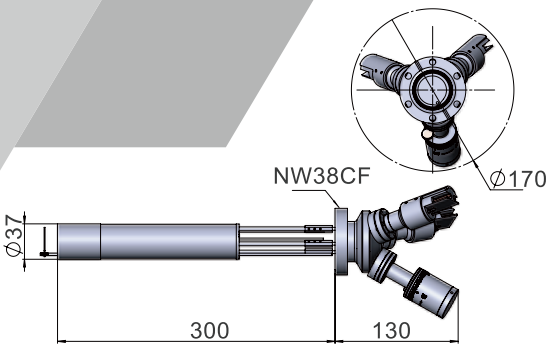
Dual-Zone Evaporator



FERMI

Part Number DZEC38

This effusion cell is designed for high vapor pressure materials, which form atom clusters and need extra heating to crack into small pieces, e.g. Se, Te, As, Mg, Sb, CdTe, ZnTe, etc. It has two indepent fimaments, the bottom one is for material evaporation (up to 1000 ℃), the up one is for thermal cracking (up to 1400℃).

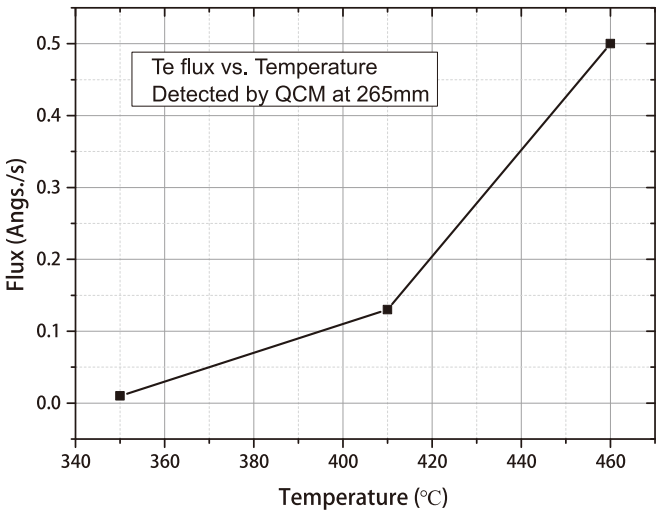
The crucible is made of PBN, capacity 50cc. At the orifice, an insert piece would be installed for cracking, which is made of PBN, PG, or Ta. In the center of the insert lining is a tiny hole, by chaning the diamater of the hole, the flux distribution and intensity could be controlled.

Specification

- Heating System: Radiation heating, PBN supported Tantalum filment
- Bakeout Temperature: 250℃

Mounting Flange	Crucible Size	Working Temperature	Degas Temperature	Thermocouple	Stability
NW38CF (2.75 inch)	50cc	Top Zone:300~1400℃	1500℃	C	±0.1℃
		Bottom Zone:100~1000℃	1100℃	K	

Te Flux Test



Te Film Thickness Test