

VALVED EFFUSION CELL V-LTC



The CreaTec valved effusion cell is a low temperature cell with a valve at the orifice to control the beam flux.

This modification is specially useful for elements like As, P, S, Se and Te.

The integrated valve mechanism allows a change in beam flux of two to three orders of magnitude.

Technical Data

Standard :

Type	V - LTC
Heating system	Radiation heating, tantalum wires with PBN insulators
Temperature range	100 °C ... 800 °C bulk zone 2100 °C ... 1000 °C valve
Temperature stability	≤ 0.1 K depending on the PID controller
Max. outgas temp.	800 °C bulk zone 100 °C valve
Max. power	360 W bulk zone 120 W valve
Max. current	12 A bulk zone 6 A valve
Integral Valve	manual
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 as specified
Max. outer diameter	38 mm/ as specified
Length	As specified
Thermocouple type	Two independent thermocouples type C / WRe 5% - 26%
Crucible material	Ta / quartz
Crucible capacity	5 ... 80 ccm, or upon request

Options :

Motorized	Optional
Water cooling	Optional
Other dimensions	As specified

