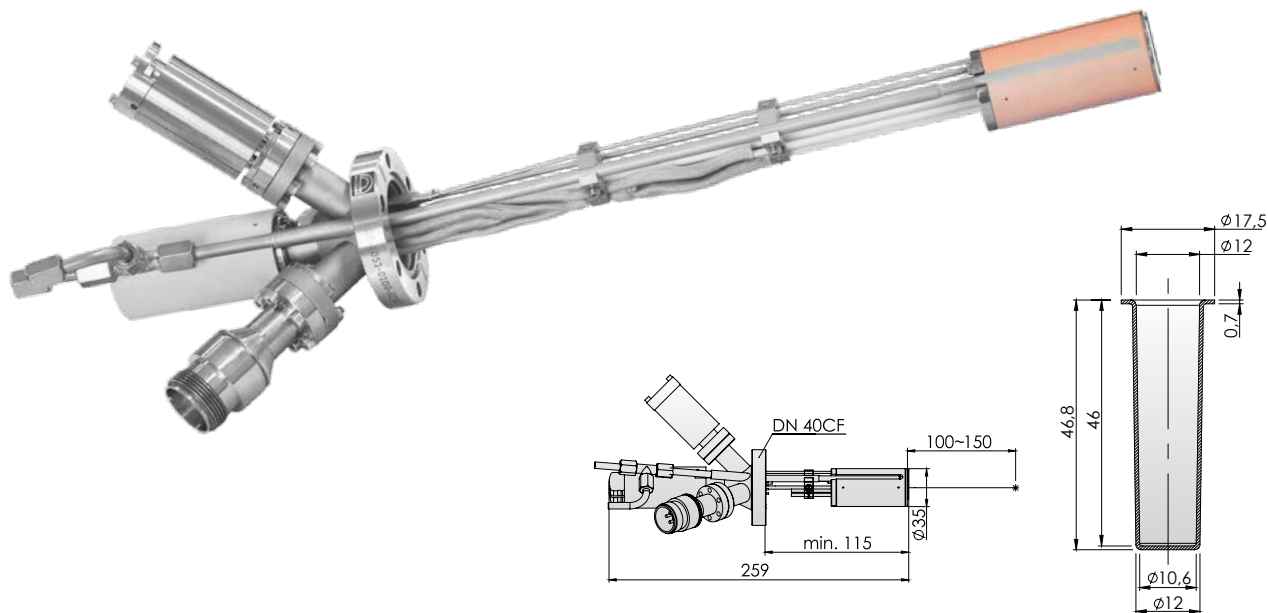


EF 40C1DF DOUBLE FILAMENT EFFUSION CELL



DESCRIPTION

EF 40C1DF Double Filament Effusion Cell is a source with two independently operated filaments for greater convenience in the evaporation process.

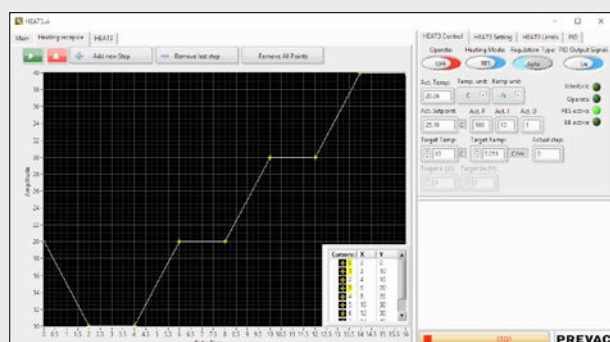
FEATURES

- Dual filament source operation
- Operation modes: serial, parallel, hot lip, cold lip
- Extremely stable flux rates
- Various crucible materials
- Highly reproducible & reliable
- Suitable for use in any MBE system
- No free construction (allows high outgassing temperatures)
- Integral water cooling
- Thermocouple type C

OPTIONS

- Customised insertion length
- With or without integrated manual/electro-pneumatic shutter
- Linear shift
- Crucibles

HEATING CONTROL APPLICATION



TECHNICAL DATA

Mounting flange	DN 40 CF (rotatable)
Heater	W wire (tungsten)
Temperature range	250 °C - 1400 °C
Temperature stability	± 0.1 °C
Crucible type (option)	PBN, Al ₂ O ₃ , Quartz (other materials on request)
Crucibles volume	5cc (other volume on request)
Evaporated materials	Group III-V MBE all typical materials (e.g. Ga, In, Al, Si, Be, Cu, Ag, Au, CaF ₂)
Thermocouple type	type C
Degassing temp.	1450 °C
Type of shutter	side or flip type, manual or pneumatic
Water cooling (required)	water flow > 0.5 l/min temperature: 20 - 30 °C max pressure: 6 bar
Insertion length	min. 115 mm (other on request) OD: 35 mm
Deposition area	dependent on working distance
Working distance	100 - 150 mm
Bakeout temperature	up to 250 °C
Working pressure	< 10 ⁻⁵ mbar

ELECTRONICS

HEAT3-PS HEATING POWER SUPPLY (resistive mode)

Please refer to the product page: 31

