

## Datasheet DCS 40-2x-1-14-2S

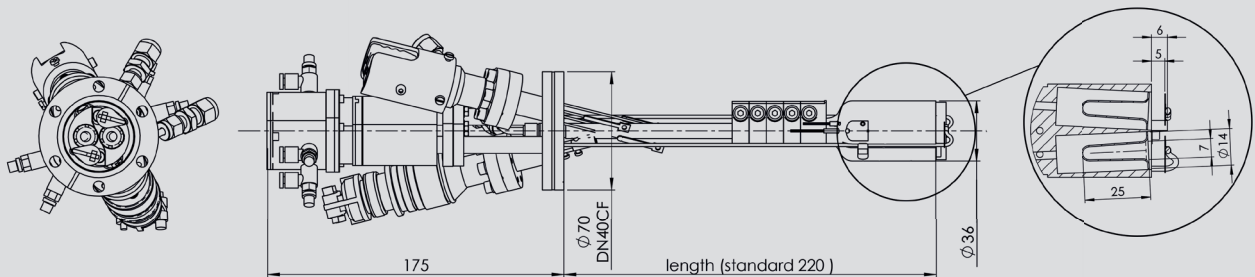
- For thin layer deposition in nanoscience  
typical evaporants: Au, Ag, Bi, Ga, In, organics, etc.
- Two independent sources on a single  
DN40CF (2.75") flange
- Two individual shutters
- Integrated water cooling
- Minimized temperature crosstalk
- Low power consumption



DCS 40-2x1-14-2S on DN40CF (2.75") flange

### Technical Data

Mounting flange	DN40CF (2.75")	
Dimensions in vacuum	standard length 220 mm; other lengths on request	
Distance source-sample	typically 100 mm to 160 mm	
Bakeout temperature	max. 250°C	
Thermocouple	Type K (Chromel/Alumel)	Type C (W5%Re/W26%Re)
Outgassing temperature	1100°C	1500°C
Operating temperature	25-1000°C	50-1400°C
Typical power consumption	500°C: 10 W / 4 A, 1000°C: 36 W / 6 A, 1300°C: 50 W / 10 A	
Crucibles	PBN, Quartz, Al <sub>2</sub> O <sub>3</sub> , etc., nominal charge 550 mm <sup>3</sup>	
Cooling	water cooled block, 30 l/h cooling water flow	
	low temperature crosstalk: one cell 1300°C / second cell 150°C possible	
Shutters	two individual integrated rotary shutters (2S)	
	shutter opening within I.D. 40 mm tube, manual or remote control option	



Schematic drawing of the compact Dual Cluster Source DCS  
(Drawing shows DCS 40-2x14-2S with two individual shutters)