

EFM EVAPORATORS

ELECTRON BEAM EVAPORATOR FOR ULTRA-PURE SUBMONOLAYER AND MULTILAYER THIN FILM GROWTH



- **Evaporation from Wires, Rods or Crucibles**
- **Temperature Range up to 3300 °C**
- **Integrated Flux Monitor**
- **Water Cooling for Minimum Pressure Rise**
- **Rear Loading for Alignment Preservation**
- **Comfortable LabVIEW™-based PC Software**
- **Most popular UHV Evaporator worldwide**



EFM SURVEY TABLE

		EFM 2	EFM 3	EFM 3s	EFM 3i	EFM 3T	EFM 3Tm	EFM 3Ts	EFM 4	EFM 6	EFM H
typ. Working Distance	mm	50-200	50-200	50-200	50-200	93	93	93	50-200	50-200	>60
standard Insertion Depth	mm	210	210	210	210	161	161	161	210	220	140
optional Insertion Depths	mm	190-600	190-600	190-600	190-600	161-411	161-411	161-411	190-600	190-600	120-250
typ. Flange to Sample distance	mm	260-410	260-410	260-410	260-410	254	254	254	260-410	260-410	>200
Evap. Area Diameter	mm	4-30	4-30	4-30	4-30	8.5, 11, 15	8.5, 11, 15	8.5, 11, 15	10-50	> 50	±6° to ±15°
Mounting Flange	mm	DN 40 CF	DN 40 CF	DN 40 CF	DN 40 CF	DN 40 CF	DN 40 CF	DN 40 CF	DN 40 CF	DN 63 CF	DN 40 CF
Evap. from Wires		✓	✓	✓	✓	✓	✓	✓	✓	✓	-
max. Crucible Capacity	mm ³	700	700	700	250	250	250	250	700	9000	-
max. Crucible Diameter	mm	11	11	11	8	8	8	8	11	25	-
z-shift 25mm		✓	✓	✓	✓	✓ (3x)	✓ (3x)	✓ (3x)	✓	✓	-
z-shift 50mm		optional	optional	optional	optional	-	-	-	optional	-	-
Rear Loading		✓	✓	✓	✓	✓ (3x)	✓ (3x)	✓ (3x)	✓	-	-
Shutter		-	✓	✓	✓	✓(multiple)	✓(multiple)	✓(multiple)	✓	✓	optional
Shutter drive		-	optional	optional	optional	optional	✓	optional	optional	optional	optional
Flux Monitor		-	✓	✓	✓	✓ (3x)	✓ (3x)	✓ (3x)	✓	✓	-
Ion Suppressor		-	-	✓	✓	-	-	✓	on request	-	optional
Ion Optics (IBAD)		-	-	-	✓	-	-	-	-	-	-
Gas Inlet (IBAD)		-	-	-	✓	-	-	-	-	-	-
Nickel coating (of Cu parts)		on request	on request	on request	on request	on request	on request	on request	on request	on request	on request
Port aligner (±3°)		optional	optional	optional	optional	optional	optional	optional	optional	optional	optional
upgrade/retrofit options		3, 3s, 4, H	3s, 4, H	4, H	-	3Ts	3Ts	-	-	-	pumping bypass
recommended Power Supplies		EVC 100L	EVC 300	EVC 300s	EVC 300i	3x EVC 300	3x EVC 300	2x EVC 300 + 1x EVC 300s	EVC 300	EVC 1200	EVC 100L

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