

Fusion UV® F300S and F300SQ

UV Curing Systems

Fusion UV®



Introduction

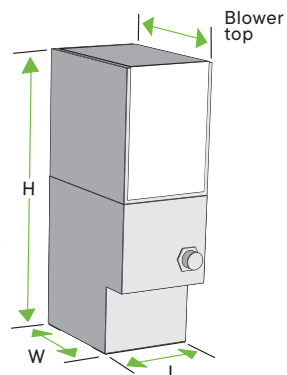
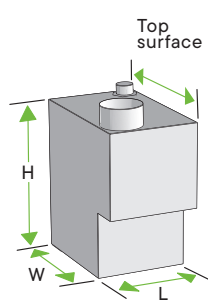
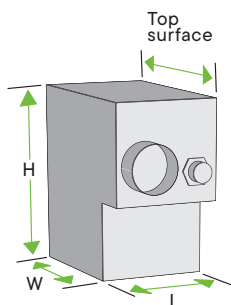
The F300S system is a production-proven 300 watt/inch microwave-powered electrodeless lamp, packaged in a compact 6-inch modular unit. An optional integral blower makes installation and setup especially easy and is perfect for lab or other facilities where blower and ducting installation is difficult. Indicator lights make operating the system intuitive and easy.

BENEFITS

- Simple installation
- Simple, easy-to-use controls
- Most economical first cost
- Rugged and reliable
- Popular bulb spectra available
- Ability to process heat sensitive substrates – lower heat compared to mercury arc lamps
- Compatible with LC6B Benchtop and DRS 10/12 floor-standing conveyors

IRRADIATOR MODELS

Available with integral blower (I300MB), or with 76 mm (3 in.) diameter hose adaptor for remote blower (I300M or I301M)



	I300M	I301M	I300MB
Weight	8 kg (17 lbs.)		14 kg (30 lbs.)
Height	277 mm (10.9 in.). Top surface 170 mm (6.7 in.) x 262 mm (10.3 in.)		506 mm (19.9 in.). Blower top 170 mm (6.7 in.) x 275 mm (10.8 in.)
Dimensions	170 mm (6.7 in.) long (along bulb axis), x 208 mm (8.2 in.) wide at lamp face		
Cooling	Minimum 2.7 m ³ /min. (100 cfm) of filtered air at 800 Pa water gauge (3.2 in.) at the inlet [450 Pa (1.8 in.) measured at the housing], supplied by integral blower or via 76 mm (3 in.) diameter flexible hose from remote blower (not included)		
Reflector geometry	Semi-elliptical, focuses at 53 mm (2.1 in.) from irradiator face		
Mounting position	Can be mounted and operated in any position		
Mounting enclosure	Supplied as custom item (must have exhaust system with approximately 130 cfm capacity per irradiator)		
Lamp power	120 W/cm (300 W/in.); 1,800 watts total		
Substrate location	53 mm (2.1 in.) from irradiator face, for maximum irradiance		
Bulb type	H, H+, D, V		

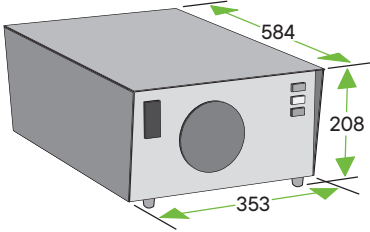
Lamps contain mercury. Manage in accordance with local, state or federal disposal laws.

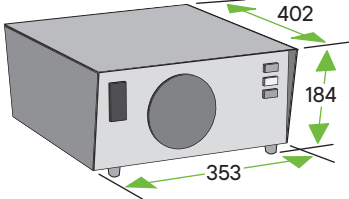
Specifications: F300S and F300SQ

Specifications are for a single lamp system consisting of irradiator and power supply. Larger systems are constructed by placing lamp modules end-to-end; power supplies may be stacked and interconnected. F300S system uses P300MT power supply, F300SQ system uses P300MQ power supply.

Compliance: TÜV; CE

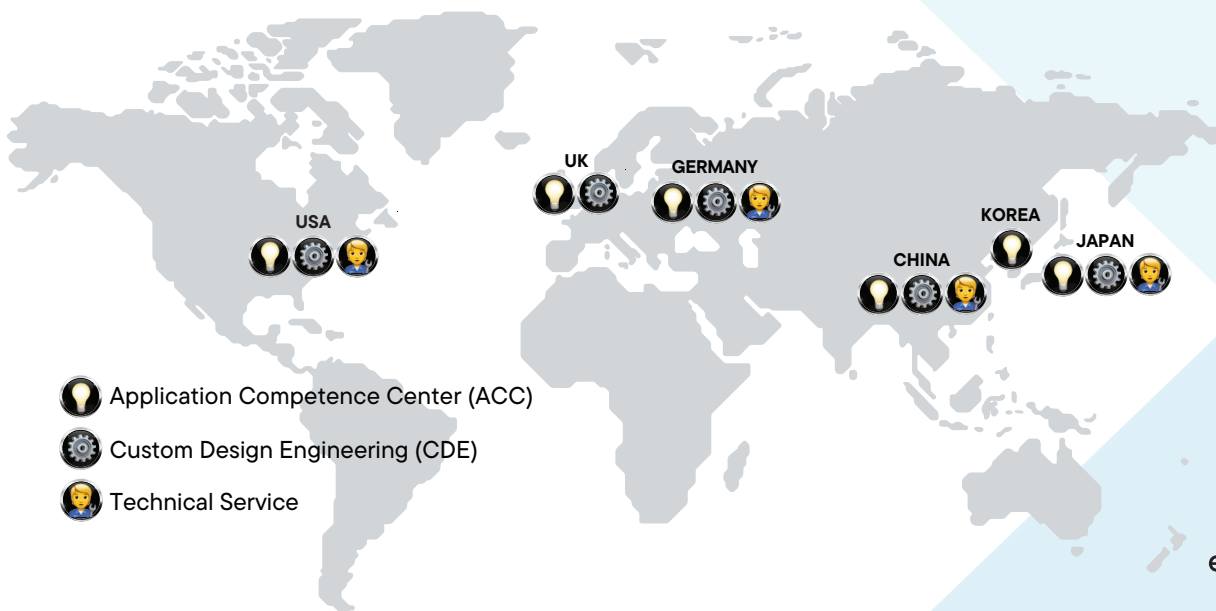
F300S and F300SQ systems are fully certified to applicable European and USA regulations and requirements.

POWER SUPPLY	
	
P300MQ	
Weight	40.3 kg (88.6 lbs.)
Dimensions	353 mm (13.9 in.) wide x 208 mm (8.2 in.) high x 584 mm (23.0 in.) deep. An additional 300 mm (12 in.) clearance is recommended for cable connection access at rear
Quick restart feature	Maintains low power to bulb during standby (up to 40 seconds) to permit lamp restart at any time, without 24-second cool down period. All other specifications same as P300MT

POWER SUPPLY	
	
P300MT	
Weight	28 kg (62 lbs.)
Dimensions	353 mm (13.9 in.) wide x 184 mm (7.3 in.) high x 402 mm (15.8 in.) deep. An additional 300 mm (12 in.) clearance is recommended for cable connection access at rear
Cooling	Self-contained internal fan
Lamp	On, standby, off/reset
Interlocks	Unit: Lamp out, power imbalance, power error, power interrupted, power supply temperature, blower pressure System: System blower, external interlock, RF interlock (RF detector)
Connections	4 m (13 ft.) cable assembly from power supply to irradiator (other cable lengths available). Line power connections and fused disconnect to be supplied by user
Control functions	Power on, off
Test points	Available on front panel
RF detector	4 m (13 ft.) connecting cable (other cable lengths available)
Service access	Removal of cover
Stacking	Up to three power supplies may be stacked; soft feet fit into top dimples
Power connection	200–240 V, 18 amp, 50/60 Hz, 1 phase

Contact your local Excelitas Fusion UV office for an engineered solution for your specific requirements.

Success Factor: Regional teams close to our customers



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ISO 9001 Certified QMS

