



## Fusion UV® F300S and F300SQ UV Curing Systems

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

**Fusion UV®**

  
**excelitas®**

# 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.

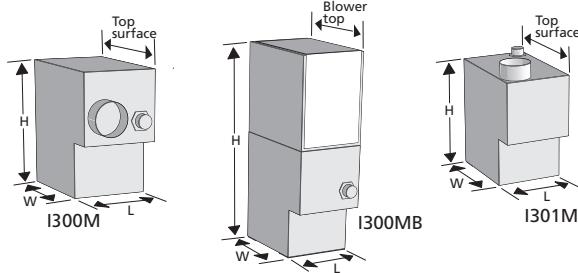
## Irradiator: Models I300MB, I300M, I301M

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

### Weight:

- I300MB: 14 kg (30 lbs.).
- I300M/I301M: 8 kg (17 lbs.).

**Dimensions:** 170 mm (6.7 in.) long (along bulb axis), x 208 mm (8.2 in.) wide at lamp face.



### Height:

- I300MB: 506 mm (19.9 in.). Blower top 170 mm (6.7 in.) x 275 mm (10.8 in.).
- I300M/I301M: 277 mm (10.9 in.). Top surface 170 mm (6.7 in.) x 262 mm (10.3 in.).

**Cooling:** Minimum 2.7 m<sup>3</sup>/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.



## Power Supply: Model P300MT

**Weight:** 28 kg (62 lbs.).

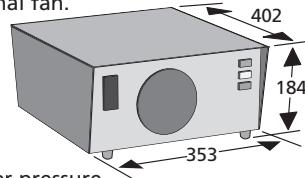
**Dimensions:** 353 mm (13.9 in.) wide x 184 mm (7.3 in.) high x 402 mm (15.8 in.) deep. An additional 300 mm (12 in.) clearance is recommended for cable connection access at rear.

**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:** Model RF1, with 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.

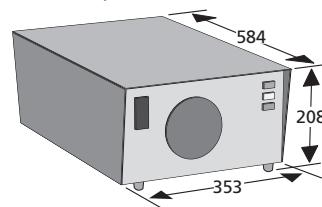
## Power Supply: Model P300MQ

**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.



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