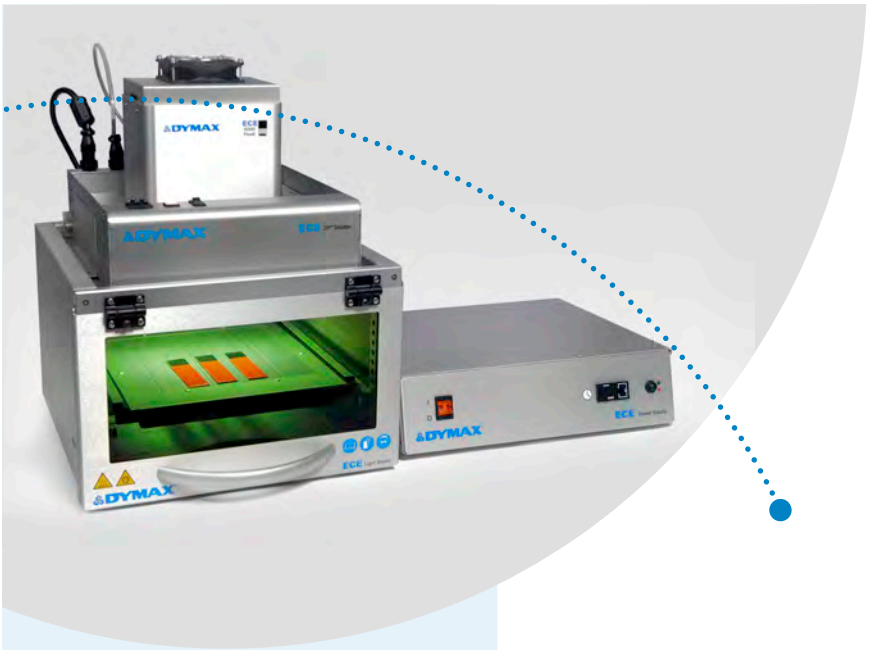


ECE-Series

UV Light-Curing Flood Systems

- Powerful UV light-curing lamps (up to 225 mW/cm^2)*
- Standard systems contain a metal halide bulb (longwave) but two additional bulb options (shortwave and visible) are available for order
- Two flood lamp options available: 5" x 5" (12.7 cm x 12.7 cm) and 8" x 8" (20.3 cm x 20.3 cm)
- 100% shielding with safety interlock
- Easy-to-adjust tray height
- Shutter that can be actuated by foot pedal or PLC
- Bulbs are warranted for 2,000 hours**
- Lamp turn-off when the Light Shield door is open
- Containment of non-passive lamp failure
- Reduced light leakage with the ECE Light Shield design
- Redesigned mounting plate for the ZIP Shutter reduces light leakage

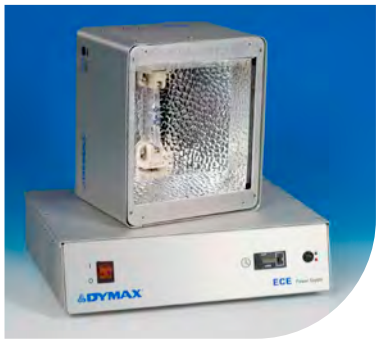
* Measured with a Dymax ACCU-CAL™ 50 Radiometer (320-395 nm) at a lamp height of 3" (7.62 cm) using a standard metal halide bulb.

** Warranty covers bulb ignition only. Intensity is not warranted.

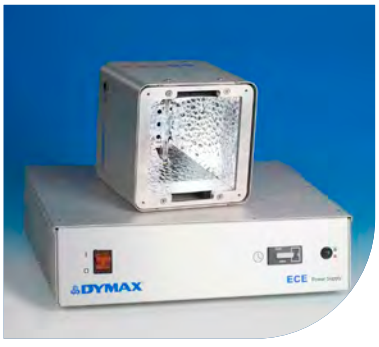
Dymax light-curing flood lamps offer moderate- to high-intensity curing over a 5" x 5" (12.7 cm x 12.7 cm) or 8" x 8" (20.3 cm x 20.3 cm) area. Curing in 5-30 seconds is typical using Dymax light-curable materials. These lamps are simple to operate and are available with or without shutters. Dymax UV flood lamps can be used as bench-top curing systems or integrated into automated assembly systems. They offer the industry's most consistent intensity over the 2,000 hour bulb warranty.

ECE-Series UV Light-Curing Flood Lamps

Dymax offers two flood-lamp options, the ECE 2000 and 5000, for rapid curing of UV adhesives, coatings, and inks. These UV flood lamps offer moderate to high intensity over an area up to 8" x 8" (20.3 cm x 20.3 cm). By adding shielding and/or shutters, these UV light-curing flood lamps can be used as either turnkey bench-top systems or integrated into an automated assembly process. Either unit model can be configured with bulb options to deliver enhanced short-wavelength (UVB), Long wave (UVA), or Optimized Visible (V) energy emissions.



ECE 2000 modular power supply and housing



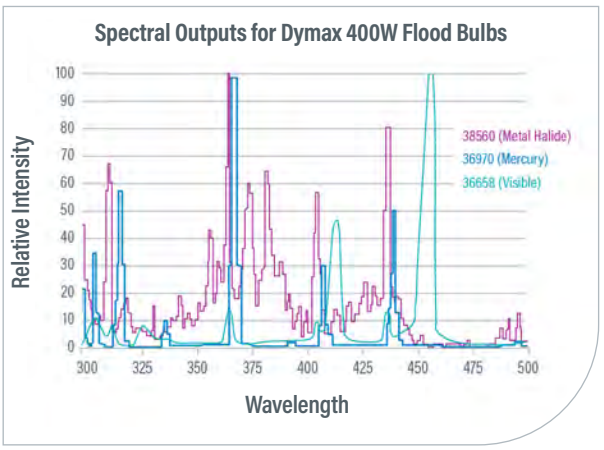
ECE 5000 modular power supply and housing

Specifications

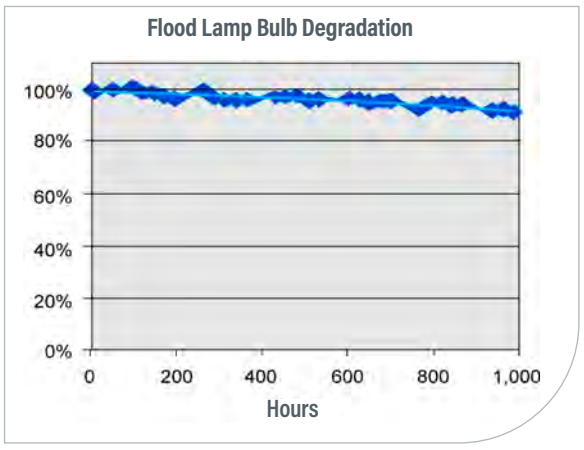
Specifications	ECE 2000 Modular	ECE 5000 Modular
Part Number	40965*	40915*
Typical Initial Output Intensity at UVA (365 nm)**	105 mW/cm^2	225 mW/cm^2
Curing Area	8" x 8" (20.3 cm x 20.3 cm)	5" x 5" (12.7 cm x 12.7 cm)
Working Distance	2" - 6" (5.08 cm – 15.24 cm)	2" - 6" (5.08 cm – 15.24 cm)
Reflector Housing Dimensions	9" L x 10.5" W x 7.5" H (22.9 cm x 26.7 cm x 19.1 cm)	6.75" L x 6.75" W x 8" H (17.2 cm x 17.2 cm x 20.3 cm)
Power Supply Dimensions	12" L x 16" W x 4.25" H (30.5 cm x 40.6 cm x 10.8 cm)	
Bulb Warranty	2,000 hours (no intensity warranty, only bulb ignition)	
Typical Degradation	< 20% over 2,000 hours	
Power Requirements	100 - 240 VAC +/-10% Single Phase 47 – 63 Hz	
Replacement Bulb Part Numbers	38560 Metal Halide (Standard, UVA, Longwave) 36970 Mercury (UVB, Shortwave) 36658 Visible	

* For customer in Europe, the appropriate power cord will be added

** Intensity readings vary widely depending on the make and model of the radiometer. These intensities were measured with the ACCU-CAL™ 50 radiometer.



ECE 2000 & 5000 UV light-curing flood lamps spectral distribution using a standard metal halide bulb (38560)

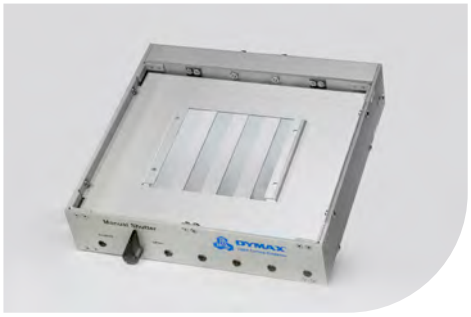


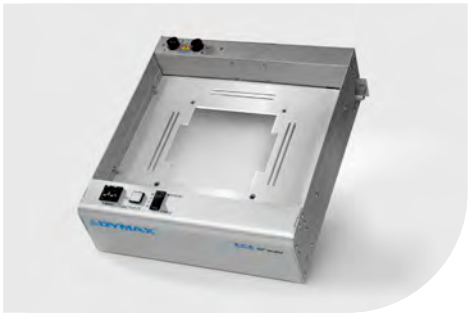
The intensity generated by Dymax flood systems is very consistent. With continuous use, bulb degradation of less than 20% over the first 2,000 hours is typical. Power on/off cycle's temperature, humidity, and operating environment all have an effect on intensity degradation and will affect bulb life.

Accessories

Shutters

Dymax UV light-curing flood lamps require warm-up and cool-down time. For that reason, it is not possible to control exposure by turning lamp power on/off. Shutters, however, can be used to control exposure time. Dymax offers the following shutters for use with the ECE 2000 and 5000 flood-lamp curing systems.



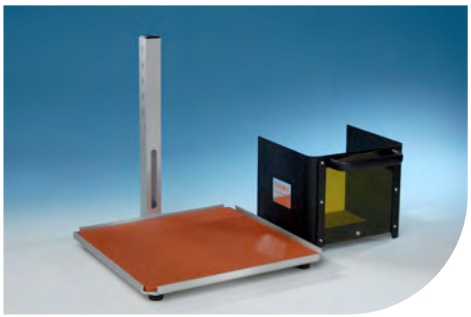


Manual Shutter	
Part Number	35572
Dimensions (W x D x H)	11.3" x 11.1" x 2.5" (28.7 cm x 28.2 cm x 6.4 cm)
Description	Low cost louvered shutter. Simple hand turn knob opens and closes shutter.

ECE ZIP™ Shutter	
Part Number	40885 - ECE ZIP™ Shutter 41097 - SS Curtain Replacement Kit
Dimensions (W x D x H)	12.5" x 12.9" x 3.8" (31.8 cm x 32.8 cm x 9.7 cm)
Description	Electronic, curtain-style shutter. Actuated via finger switch, foot pedal, or customer supplied switch (or PLC).

Shielding

Dymax offers two shielding options for its UV curing flood systems, a mounting stand kit and a light shield.



Mounting Stand Kits	
Part Number	38289 - ECE 5000 Mounting Stand Kit 38290 - ECE 2000 Mounting Stand Kit
Dimensions (L x W)	ECE 5000: 7.0" x 6.1" (17.8 cm x 15.5 cm) ECE 2000: 8.5" x 10.8" (21.6 cm x 27.4 cm)
Description	A simple and cost effective 3-sided shield that is removed manually. Not compatible with Dymax shutters.

ECE Light Shield	
Part Number	40785
Inside Dimensions (W x D x H)	13.2" x 12.5" x 8.3" (35.53 cm x 31.75 cm x 21.08 cm)
Outside Dimensions (W x D x H)	15.1" x 18.2" x 10.6" (38.42 cm x 46.25 cm x 26.83 cm)
Description	360º shielding. Swing up door and slide out shelf. Compatible with Dymax shutters.

Part Numbers for Various Lamp/Shutter/Shielding Combinations*	ECE 2000	ECE 5000
Modular (no shielding or shutter)	40965	40915
With Mounting Stand	40920	40970
With ECE Light Shield	40870	40900
With ECE Light Shield and Manual Shutter	40790	40850
With ECE Light Shield and ECE ZIP™ Shutter	40830	40840

* Combinations contain the appropriate power cord for European customers.

41590 ACCU-CAL™ 160 Radiometer

The ACCU-CAL™ 160 radiometer is simple to operate and offers repeatable measurement of curing energy. The Dymax ACCU-CAL™ 160 can measure UV light emitted from UV flood system, and UV conveyors.

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