Dymax® Adhesives and Light Curing Systems

SELECTOR GUIDE

Flood and Focused Beam UV and Visible Light Curing Systems

Dymax produces a range of flood light sources for curing UV and/or visible light curing adhesives and coatings. They are integrated in complete modular packages ready to plug in and cure, and are designed to optimise safety and convenience for process-controlled cures utilising the Dymax 1200 focused beam, 2000 wide area flood and 5000 concentrated flood reflectors. These light sources are highly versatile, capable of curing adhesive on parts with large bond lines or multiple parts in trays, or for curing coatings. They are ideal for benchtop production or prototyping.

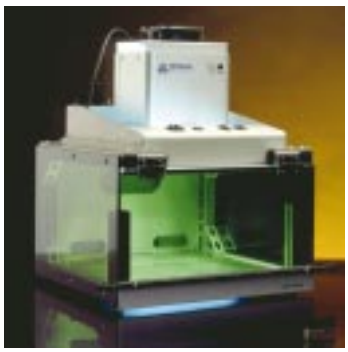
3 easy steps to creating your own light curing system

Dymax makes it easy to create your own light curing system. The selector chart on the back of this guide lists each reflector housing and power supply combination, together with a complete list of components, which are shown on the middle pages. Follow these three easy steps to create your unique curing system:

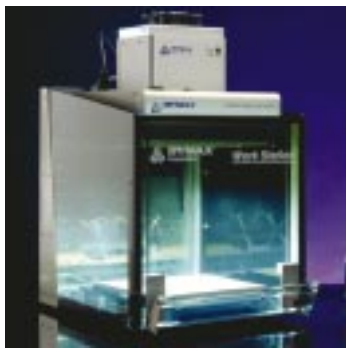
1. Choose a reflector housing (5000, 2000, 1200) with a power supply
2. Choose a shutter and/or shield/stand
3. Choose from a comprehensive list of components and accessories

Curing the way you want it . . . build your own system with Dymax mix and match modules

Reflector Housing with PC Power Supply



5000-PC Light Source with ZIP™ Shutter and Light Shield



Workstation with 5000-PC Light Source & ZIP Shutter
Designed for industrial UV processing and maximum operator safety

2000-PC Light Source with Light Shield

ACCU-CAL™ 30 Radiometer
Provides precise measurement of irradiance power

UV curing systems made easy *and* worker friendly

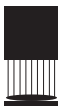
- Complete protection from UV light
- Clear view of curing process
- Wide area or focused flood curing
- 400 Watt UV/visible bulb

DYMAX®
Adhesives and Light Curing Systems

1 Flood and Focused Beam Light Sources

Reflector Housings

5000



The 5000 is Dymax's most popular and versatile reflector housing. It is a concentrated flood lamp for fast curing of UV adhesives, coatings, sealants and encapsulants. The 5000-PC Light Source comprises the 5000 Reflector Housing and a PC 400 Watt Power Supply.

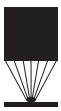
Cure area:	**127 x 127mm footprint**
Cure distance:	**50 – 100mm from bottom of reflector**
Dimensions:	**165 x 152 x 152mm**
Typical intensity:	**225 – 275mW/cm²**

2000

The 2000 is the widest area general purpose, lower intensity flood lamp. Excellent for curing trays of small parts or large bond areas economically. Recommended for curing adhesives between more delicate clear surfaces. The 2000-PC Light Source comprises the 2000 Reflector Housing and a PC 400 Watt Power Supply.

Cure area:	**203 x 254mm footprint**
Cure distance:	**50 – 100mm from bottom of reflector**
Dimensions:	**267 x 228 x 178mm**
Typical intensity:	**60 – 80mW/cm²**

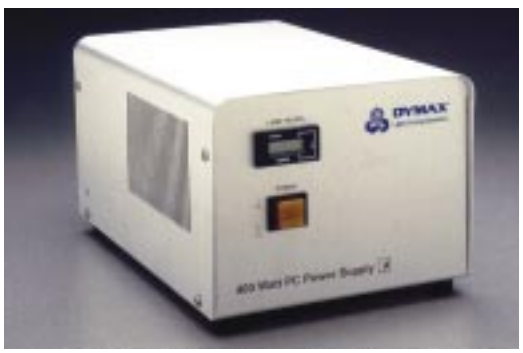
1200



The 1200 reflector housing emits a focused beam of light for highest intensity. Focused lamps are usually mounted over conveyors for short exposure times. The 1200-PC Light Source comprises the 1200 Reflector Housing and a PC 400 Watt Power Supply.

Cure area:	**25 x 152mm beam**
Focal point:	**~100mm from bottom of reflector**
Dimensions:	**267 x 228 x 178mm**
Typical intensity:	**300 – 350mW/cm²**

PC 400 Watt Power Supply

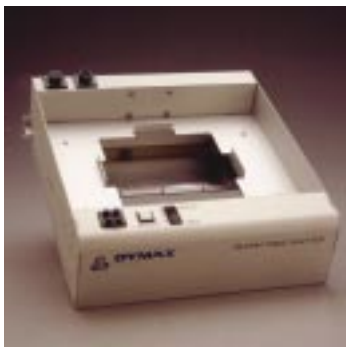


Transformer-based power supply. Incorporates an hour meter and auxiliary power for shutters, fans and other devices.

Voltage:	**230V**
Dimensions:	**203 x 318 x 165mm**

2 Shutters, Shields and Stands

Shutters



Dymax shutters are process control and safety devices which allow timed light exposure, lower heat on work surfaces and reduced operator exposure to UV light.

ZIP

Actuated by finger switch, foot pedal or door sensor. Controlled timing and manual modes. Total curing field is unobstructed owing to roller-blind design with no louvres. Electrically powered by 24V auxiliary output provided from PC 400 Watt Power Supply.

Dimensions (L x W x H):	**343 x 298 x 114mm**

Manual Louvre

This is our lowest cost shutter with bi-directional hand-turn knob.

Dimensions (L x W x H):	**274 x 288 x 64mm**

Shields and Stands

2000/1200 & 5000 Mounting Stand Kits*

Low cost stand with 270° of shielding.

The 38290 kit includes pedestal, large work surface, mounting hardware, large shield and safety goggles. Designed for 2000/1200 Reflector Housings.

The 38289 kit includes pedestal, small work surface, mounting hardware, small shield, cooling fan and safety goggles. Designed for 5000 Reflector Housing.

*Not for use with Shutters

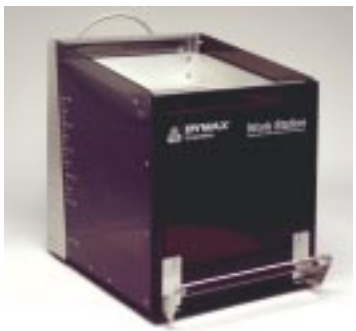
Shield dimensions 38290	**216 x 274mm**
Shield dimensions 38289	**176 x 155mm**

Light Shield

This complete enclosure provides 360° shielding.

Features removable and adjustable shelf and easy-open door.

Outside dimensions (L x W x H):	**429 x 321 x 273mm**
Inside dimensions (L x W x H):	**378 x 270 x 203mm**



Workstation

This complete enclosure offers maximum protection and ease of use. The shutter closes automatically when the door is opened. Provides 360° shielding. As the work surface is mounted on fixed sliders, the user never has to reach inside. The door slides up and down, staying up when released, and the work tray slides in and out for easy access.

Outside dimensions (L x W x H):	**603 x 367 x 445mm**
Inside dimensions (L x W x H):	**432 x 292 x 216mm**

3 Accessories

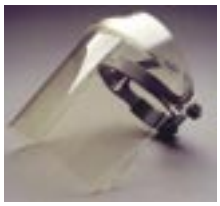
ACCU-CAL 30 Radiometer

An essential process control tool, the ACCU-CAL 30 Radiometer is a high quality instrument for precise measurement of irradiance power or irradiance dose within UVA-BLUE radiation. The base unit (optometer) can be matched to three different measurement heads for solving different measuring tasks. For UV curing, a radiation detector is used that is ideally adapted to a number of applications.

A separate detailed brochure is available for this product.

ACCU-CAL 30 Radiometer	38301
ACCU-CAL 30 Radiometer with Spot Lamp Accessories	38302

Bulbs



Face Shield

Goggles

Selector Chart

You can mix and match part numbers for light sources with light shields, shutters and accessories to build the light curing system that is ideal for your specific requirements.

Light Sources (Reflector Housing & Power Supply)	Part Numbers
1200-PC (230V)	38007
2000-PC (230V)	38003
5000-PC (230V)	38005

Shields/Stands & Shutters	Part Numbers
Light Shield	38125
Light Shield with Manual Shutter	39023
Light Shield with ZIP Shutter	39021
UV Workstation with Zip Shutter (available for 5000 reflector only)	39011
Mounting Stand Kit, 5000	38289
Mounting Stand Kit, 1200 & 2000	38290
Shutter Fabric Replacement	38071

Bulbs & Accessories	Part Numbers
400 Watt Standard	35008
400 Watt Visible	36658
400 Watt Shortwave UV	36970
Goggles – Clear	35284
Goggles – Grey	35285
Goggles – Amber/Brown	38399
Goggles – Green	35286
Spectacles – Clear	35612
Spectacles – Grey	35613
Spectacles – Green	35614
Spectacles – Dark Green	38349
Full Face Shield – Clear	35186
Full Face Shield – Dark Green	38407
ACCU-CAL 30 Radiometer	38301
ACCU-CAL 30 Radiometer with Spot Lamp Accessories	38302
Universal Junction Box	38123

DYMAX
Adhesives and Light Curing Systems

Dymax designs and manufactures a complete range of UV and visible curing resins as well as curing lamps, conveyors and custom curing systems.

For more information about Dymax please visit www.dymax.com

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