

# Light Cure Cure Chambers

Loctite® brand cure chambers are used for the batch processing of parts that require light curing adhesives and coatings. These units are designed to meet a variety of process requirements. Selection of a Loctite® brand cure chamber is based on the part size, required lamp for optimum cure, and whether the need for additional bulb types exist.

**Loctite® ZETA® 7215  
UV Chamber**

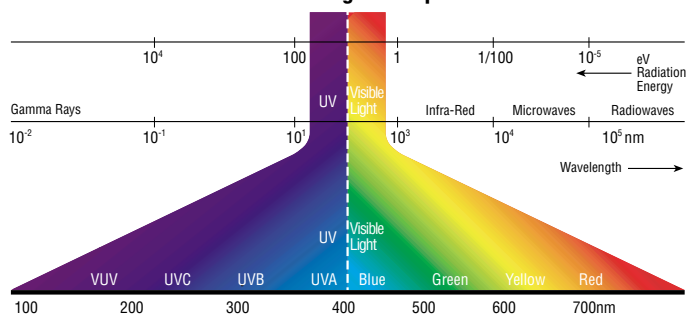
**Loctite® ZETA® 7401  
UV Chamber**

For proper eye protection, use Loctite® brand ultraviolet safety glasses, Item # 97210

|  |   |   |
|--|---|---|
|  |  |  |
| <b>Item #</b>                            | 98081 (formerly 98007)  | 98039   |
| <b>Useful Cure Area</b>                  | 6" x 6"   | 8" x 8"   |
| <b>Lamp Type</b>                         | Medium Pressure Mercury Arc   | Metal Halide  |
| <b>Output Intensity</b>                  | High  | Medium  |
| <b>Maximum Part Size</b>                 | 9" H x 10¾" W x 10¾" D  | 4" H x 10" W x 18" D  |
| <b>Lamp Power</b>                        | 1,500 W   | 400 W   |
| <b>Optimized Spectral Output Range</b>   | UVA, B, C   | UVA   |
| <b>Optional Bulb Types</b>               | None  | Visible Light Enhanced Metal Halide   |
| <b>Timer Controlled Shutter</b>          | Yes   | No  |
| <b>Replacement Bulbs (Item # - Type)</b> | 983091 - 6" UV Bulb   | 97246 - UV Lamp, 400 W<br>983050* - Visible Lamp, 400 W                             |

\*Optional

**The Electromagnetic Spectrum**



# Loctite® ZETA® 7215 UV Chamber, Item 98081 (formerly 98007)

The Loctite® ZETA® 7215 UV Chamber is a bench top ultraviolet source designed to cure a wide range of ultraviolet curing adhesives and coatings. Suitable for laboratory use or production requirements, the Loctite® ZETA® 7215 is a high intensity UV chamber equipped with a medium pressure mercury arc lamp system, and is ideal for applications where cure-on-demand speeds are desired. To withstand the rigors of high production use, the design of the shutter has been improved with heavy-duty bearings and guides. The unit has also been upgraded with a state-of-the-art microprocessor, providing the highest degree of reliability.

## Features

- **New, heavy-duty shutter design withstands the rigors of high volume use**
- **New state-of-the-art microprocessor control system provides the highest degree of reliability**
- Contains a 6 inch, 300 Watts/inch medium pressure mercury vapor bulb
- Optimized to emit in the UVA, UVB, and UVC regions for a wide range of curing capabilities
- Incorporates a parabolic reflector which results in a uniform cure area
- Programmable timer to control light exposure
- Typical curing area of 6" x 6"
- 25 adjustable shelf heights for varying focal areas and intensities
- 1,000 hours of expected UV bulb life with proper handling and maintenance
- Lamp is shielded by an automatic shutter, preventing UV exposure to the operator during loading and unloading of parts
- Safety door interlock terminates cycle and closes shutter
- Robust industrial enclosure
- 5" exhaust port
- Hour meter to gauge lamp usage

## Theory of Operation

An operator will pre-assemble the desired components using a light curing adhesive or sealant, select the desired adjustable shelf height, place the assembly in the chamber, close the door, and push the round, green "start" button. Once the "start" button has been pushed, an internal shutter will open and the preset timer will count down the required time the unit should emit light. Once the timer reaches zero, the internal shutter closes, and the operator can open the chamber door to retrieve the assembly.

## Technical Specifications

|                      |  |
|----------------------|--|
| Lamp:                | 1,500 Watt Mercury Arc Lamp  |
| Power Supply:        | 120 VAC, 20A, 60 Hz, 1 Phase   |
| Power Supply Fuse:   | 20 A   |
| Power Consumption:   | 2,400 Watts  |
| Chamber Fuse:        | 15 A   |
| Chamber Drive Fuse:  | 3 A  |
| Cure Chamber Size:   | 18.38" H x 20" W x 21.5" D   |
| Power Supply Size:   | 13.8" H x 19.18" W x 20.19" D  |
| Maximum Part Size:   | 9" H x 10 <sup>3</sup> / <sub>4</sub> " W x 10 <sup>3</sup> / <sub>4</sub> " D |
| Total System Weight: | 145 lbs.   |



## List of Loctite® Brand Parts Supplied

- (1) Cure Chamber Base and Lamp Adapter Assembly
- (1) 6" Mercury Arc Lamp Power Supply
- (1) 6" Mercury Arc Lamp Irradiator Assembly
- (1) Manual

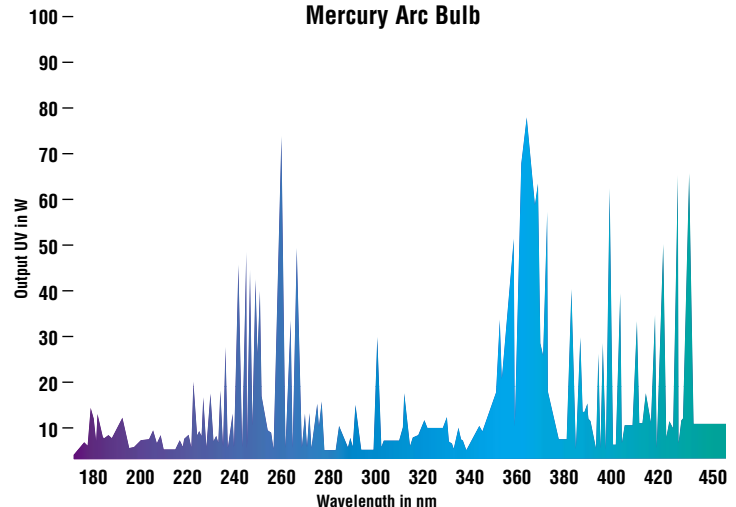
## Options

98086 Loctite® ZETA® 7011-A Dosimeter-Radiometer

## Replacement Parts

983091 Replacement 6" UV Bulb - 300 WPI

Spectral Output of a Medium Pressure Mercury Arc Bulb



# Loctite® ZETA® 7401 UV Chamber, Item 98039

The Loctite ZETA® 7401 UV Chamber, the industry's "value leader," is designed for use in a wide range of bonding, potting, tacking and sealing applications. Because of its reliability and simplicity, it is well suited for most production operations. Excellent for use in confined bond line applications, this medium intensity light source can be used for adhesive applications where high intensity output is not necessary.

### Features

- Contains a 4", 400 Watt Metal Halide Bulb
- Designed to emit in the UVA region
- Curing area of 8" x 8", and a maximum part height of 4"
- Operator's hands have no direct exposure to UV energy
- 1,000 hours of expected UV bulb life with proper handling and maintenance
- Convenient pull out drawer to process parts
- Viewing window to observe assemblies in process
- The work surface is covered by a special silicone rubber pad to resist UV deterioration and chemical attack

### Theory of Operation

The unit is operated by simply placing the assembly into the cure drawer, closing the drawer, and allowing exposure for the desired time. A viewing window allows monitoring of the curing process.

### Technical Specifications

Utilities: 120 VAC, 8 amps, 60 Hz  
 Lamp Type, (Visible and UV enhanced): 400 Watt Metal Halide  
 Size: 10.5" H x 10.75" W x 18.5" D  
 Weight: 39 lbs.

### List of Loctite® Brand Parts Supplied

- (1) ZETA® 7401 UV Chamber
- (1) Power Cord
- (1) UV Protective Eyewear
- (1) Pair Cotton Gloves
- (1) Manual



### Options

- 98086 Loctite® ZETA® 7011-A Dosimeter-Radiometer
- 983050 Loctite® Visible Light Enhanced Metal Halide Bulb

### Replacement Parts

- 97246 UV Lamp - 400 W
- 985298 Loctite® Silicone Work Surface

### ADDITIONAL OFFERINGS

See Pages 87-88 for Loctite® brand UV Meters, to measure spectral output.

Spectral Output of UV Metal Halide Bulb

