



One Henkel Way
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Product Description Sheet Loctite® EQ-CL28 CureJet LED Spot 405 nm System

North American Engineering Center

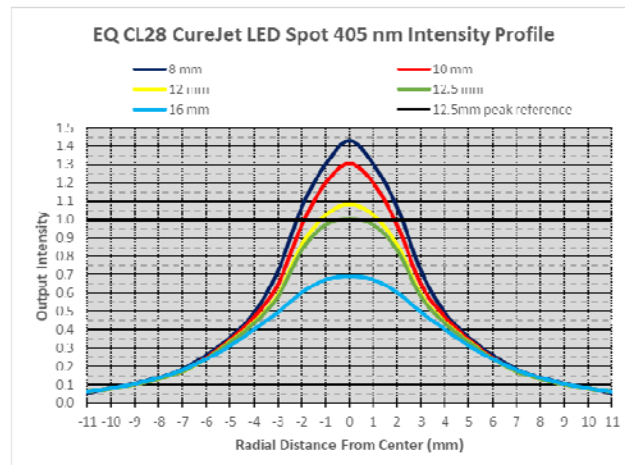
PRODUCT DESCRIPTION

The Loctite® EQ-CL28 CureJet™ LED Spot 405 nm system is our highest powered system that offers significantly wider cure area and higher curing intensities as compared to our single-point LED devices. This results in providing the ultimate in processing speeds. The EQ-CL28 CureJet™ LED Spot 405 nm wavelength has been developed for the curing requirements of the adhesive. The curing process begins when the adhesive is placed under the EQ-CL28 CureJet™ LED Spot 405 nm. The two primary variables that control the curing process are the time of exposure and the irradiance of the light. For a given irradiance, the exposure time required to fully cure the adhesive depends primarily on the properties of the adhesive and the optical properties of the substrate.



PRODUCT FEATURES:

- A 100% on-time duty cycle in a continuous or timed operation.
- Unlike traditional arc lamps, 100% of LED light output is within the usable curing spectrum of Loctite® adhesives.
- Zero infra-red emissions, reducing part heating (warping) to an absolute minimum.
- Instant On-Off - no warm-up like traditional UV systems.
- LED last up to 10 times longer than typical UV bulbs units with negligible output decay during duty life.
- Controller monitors and adjusts proper power to each of the nine individual LEDs in the LED Light Source.
- Controller can communicate with an external customer-supplied controller (such as a PLC) to offer 2-way communication for actuation of the LED head and relaying of pertinent information.
- Stackable with 1" center-to-center spacing.





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The Loctite® EQ-CL28 CureJet™ LED Spot 405 nm Curing Systems consists of three (3) individual items (each item must be purchased separately).

- **EQ-CL28 CureJet™ LED Spot 405 nm Light Source** (item # 2183340).
- **Single CureJet™ Controller** (item # 1364033) allows for setting the exposure time to the ultimate value required for curing. The controller also monitors overall system voltage fluctuations – any deviation from normal operating range will result in an error signal during the cycle.
- **Interconnecting** cable - choice of two lengths: 1 meter – item # 1370351 or 3 meter – item # 1370352.

Technical Data

Single CureJet™ Controller

- Input Voltage: 85 – 264 VAC; 50 – 60 Hz.
- Power Consumption: 150 watts
- Max. Operating Temperature: 90°F (55°C)
- Max Operating Humidity: 85% RH
- Dimensions:
 - Width: 10 inches
 - Depth: 9 5/8 inches
 - Height: 3 7/8 inches
- Weight: 8 lbs.

CureJet™ Light Sources

- Spectral Output Range
 - EQ-CL28 CureJet™ LED Spot 405 nm:
 - Primary peak range 405 - 410 nm.
 - Half wave: 12 nm typical, 25 nm Maximum
- Peak Intensity Output at 12.5mm¹:
 - EQ-CL28 CureJet™ LED Spot 405 nm intensity output:
 - 23.0 W/cm² minimum²
 - 27.0 ± 4.0 W/cm² typical³
- Dimensions:
 - Width: 1 inch
 - Depth: 10 1/8 inches
 - Height: 2 1/2 inches
- Weight: 1 lb.

Notes:

¹ Peak intensity measurement at 12.5 mm offset using 2436352 Loctite EQ PM20 UV VIS Radiometer with 1421420 Radiometer / Dosimeter Adapter for CureJet.

² Prior to packaging, Henkel inspects each CureJet under controlled conditions to ensure the minimum peak intensity is met or exceeded. End user site conditions and radiometer/dosimeter variations can result in potential lower readings.

³ Values based on 24-hour cycle test data.



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Optional items not included:

- CureJet Quad Controller; item # [1180632](#). Controls up to four (4) CureJet Light Sources independently.
- Loctite EQ PM20 UV VIS Radiometer; item # [2436352](#) for CureJet 405 and Indigo CureJet LED units.
- Dosimeter Adapter; item # [1421420](#)
- Safety glasses, orange; item # [98452](#)
- PLC Interface Cable; item # [8900550](#)

* As with all intensity measurements, actual values obtained are dependant on the meter used and the age and condition of the source.



EQ PM20 UV VIS Radiometer/Dosimeter
[2436352](#)



Dosimeter Adapter
[1421420](#)



Safety Glasses
[98452](#)



Quad Controller
[1180632](#)