

LOCTITE®

EQ CL42 LED Flood Chamber

IDH. 2804959

Operating Manual



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1 Please observe the following



For safe and successful operation of the unit, read these instructions completely. The manufacturer cannot be held responsible for damage or injury of any kind because of misuse or improper application or because of failure to observe safety instructions or warnings.

Be sure to retain this manual for future reference.

1.1 Emphasized Sections



Warning!

Refers to safety regulations and requires safety measures that protect the operator or other persons from injury or danger to life.



Caution!

Emphasizes what must be done or avoided so that the unit or other property is not damaged.



Notice

Gives recommendations for better handling or adjustment of the unit during operation as well as for service activities.

The numbers printed in bold in the text refer to the corresponding position numbers in the illustration on page 6-7.

1.2 Items Supplied

1 EQ CL42 LED Flood Chamber, Order Code No. 2804959, consists of:

- 1 Chamber, 2804959
- 1 Connection Cable Chamber – Controller (XS9)
- 1 Adapter plate for 2 LED Flood Arrays
- 1 Adapter plate for 1. LED Flood Array
- 1 Work piece holder plate
- 1 Operating Manual



Notice

As a result of technical development, the illustrations and descriptions in this instruction manual can deviate in detail from the actual unit delivered.

1.3 Field of Application (Intended Usage)


The new LED Flood Chamber has been developed for the use with max 2 of CL42 LED Flood Systems.


The picture shows the set up with 1 flood system.



1 Please observe the following


1.4 For Your Safety


 For safe and successful operation of the unit, read these instructions completely. If the instructions are not observed, the manufacturer can assume no responsibility.


 Do not expose the connecting cable to heat, oil, or sharp edges.

 Make sure the Unit stands stable and secure.

 Use only original equipment replacement parts.

 Always disconnect the power supply before servicing the unit.

 Observe general safety regulations for the handling of chemicals such as Loctite® adhesives and sealants. Observe the manufacturer's instructions as stated in the Safety Data Sheet.

 While under warranty, the unit may be repaired only by an authorized Loctite service representative.



Warning!

It is the responsibility of the user to ensure that all devices being driven by the LED Spot Controller are set-up in a safe manner.

The manufacturer is in no way responsible for injuries or damage to persons or property resulting from devices being driven by the LED Spot Controller.

For safe and successful operation of the unit, read these instructions completely. If the instructions are not observed, the manufacturer can assume no responsibility.

Removing, bypassing or putting out of operation any of the safety devices can result in radiation damage to persons and damage to the unit and is therefore prohibited!

Do not look directly at LED-UV light, or at LED-UV light reflected in a mirror or other reflective surface. Doing so could cause eye damage.

Install the LED head in a way that humans are not exposed to LED-UV light.

Exposure could injure the skin or cause other injury.

If there is a risk of the LED-UV light being exposed to UV reflective light, place the product inside a cover with proper reflectance and heat characteristics to block that reflected light.

When operating the controller, set up the system so that the path of the LED-UV light is not at eye level.

It is strongly recommended to place a protective barrier around the product so that people cannot approach it while it is operating.

Wear protective UV glasses and other protective clothing during operation.

Never operate this product in a manner not described in this manual. Doing so risks exposure to LED UV light.

Damage to the power cord or the housing can result in contact with live electrical parts. Check the power cord and the unit before each use. If the power cord or the unit is damaged, do not operate! Replace a damaged power cord with a new one.

The unit may be opened and repaired only by authorized service personal.

2 Description

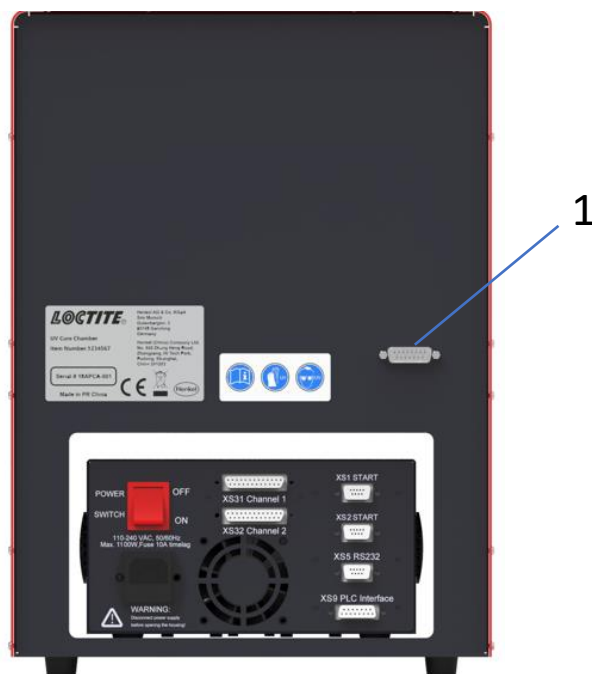
2.1 Theory of Operation

The LED Flood Chamber has been developed especially for the safe operation of the CL42 LED Flood Systems. It consists of one chamber with adapters for one or two flood arrays, work piece carrier plate, door safety system, ESD safe door with window and a separate controller connection. The radiation systems can be started with the closing of the door.

The system is for manual working places. The chamber inside is made out of high reflective stainless steel to make the stray light useable for the curing process.

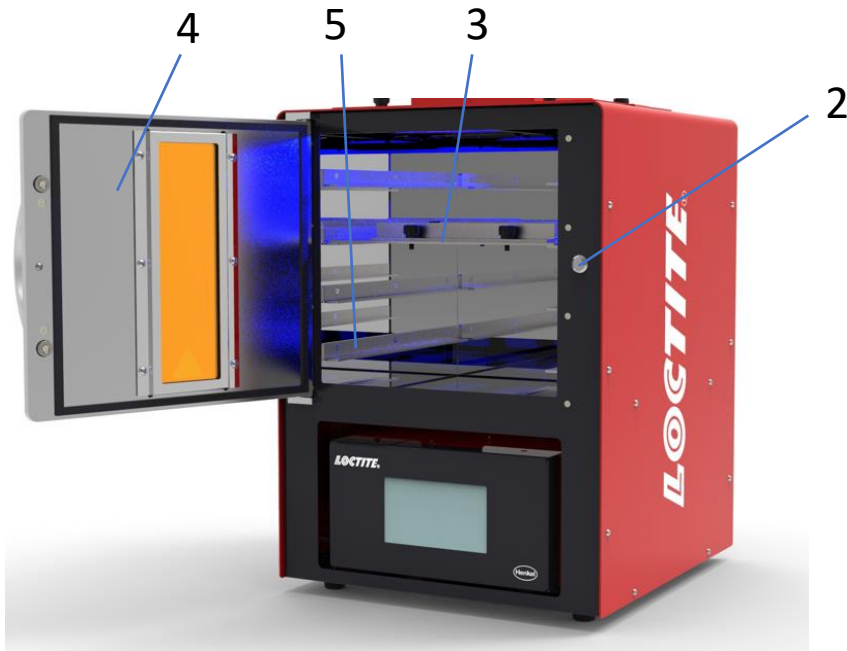
The start signal for the radiation cycle can be actuated with the closing of the chamber door. The window in the chamber door consists of special antistatic Polycarbonate to avoid damages of sensitive electronically parts. The yellow tanning of the window pane gives protection to the user against damages to the eyes due to blue light radiation with the use of 405 nm LED arrays. The UV stabilized Polycarbonate is transitive only in the spectra above 400 nm and for this protects the operator against damages due to UVA radiation.

2.2 Connections and general Description



- 1 Socket XS UV chamber**
Connection for EMG signal to the controller (XS9)

2 Description



2 Safety Switch

3 Work piece holder plate

4 Level rail

A higher position of the substrate to cure provides higher intensity and for this a faster curing.

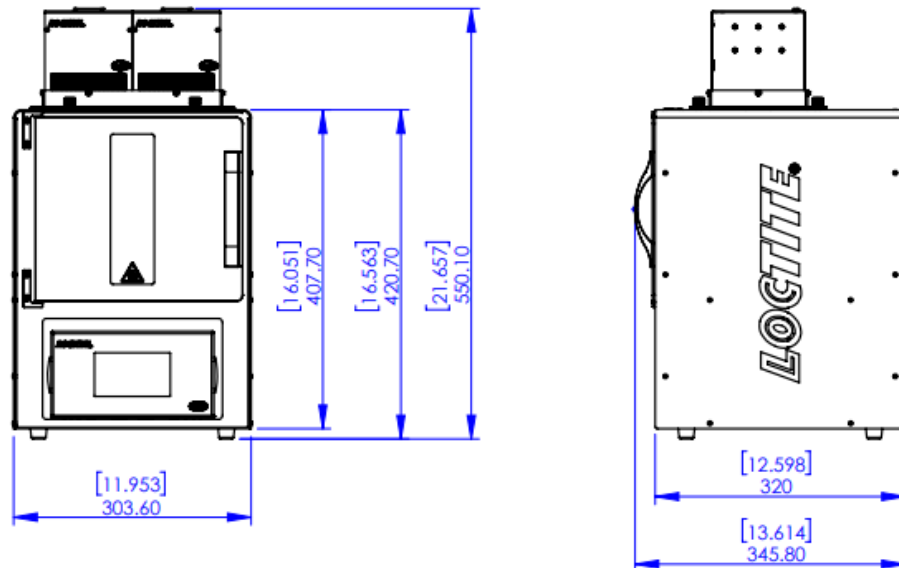
5 Chamber door

with window made out of antistatic, yellow tanned Polycarbonate

Note: Requires CI42 LED Flood cure system, sold separately.

3 Technical Data

Dimensions W x H x D	303.6 mm x 345.8 mm x 420.7 mm
weight	approx. 3.5 kg (7.7 lbs.)
Operating temperature	+10 °C to +30 °C (+50 °F to +90 °F)
Storage temperature	-10 °C to +60 °C (+14 °F to +140 °F)
Radiation area W x D	100 (or 200) x 100 mm
Workpieces dimensions(max.)	240mm x 190mm x 210mm



4 Installation

4.1 Environmental and Operating Conditions

- No direct sunlight; no UV light.
- No condensing humidity.
- No splash water.

4.2 Assembly of the LED Flood Arrays

Place the adapter on top of the chamber and fix it with the delivered knurled screws with the cut outs aligned. Following this remove at the left LED flood array the middle screw on the left side of the housing and at the right LED flood array the middle screw at the right side of the housing to fix the arrays to the adapter. For the fixing of the flood arrays to the adapter please use the delivered M3 hexagon socket screws.

4.3 Connection of the LED Flood systems

- Connect 25- pole sub-d plug of LED flood array (Lamp 1) to XS31 Channel 1 of controller.
- Connect 25- pole sub-d plug of LED flood array (Lamp 2) to XS31 Channel 2 of controller.
- Connect 15- pole sub-d plug of the controller XS9 to LED Chamber.
- Connect Power cable to power socket of the controller.

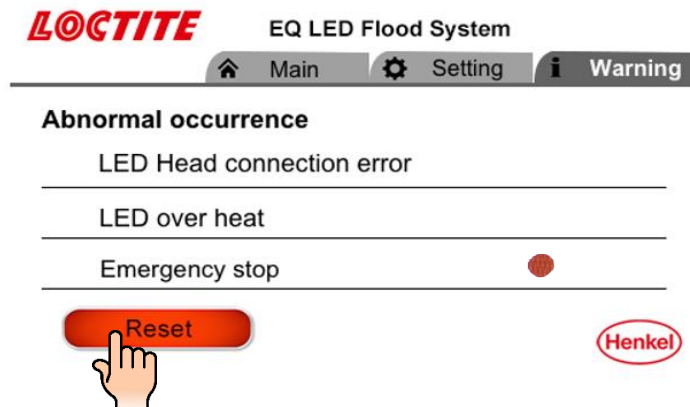
5 Operation

5.1 Start of Radiation Cycle

As soon as the dual channel controller is switched on one radiation cycle can be started if the chamber door is closed.

5.2 Door Safety Protection

The door safety system is to protect operator safety. The cure cycle will be interrupted once the chamber door is opened during operation, an error message “Emergency stop” will be displayed on the warning tab of dual channel controller and a warning beep occurs. This error will be displayed if the cure cycle is interrupted by the user. The radiation cycle can be start again until the warning message is cleared.



5.3 Shutdown

- Remove unit from power supply.

5.4 Returning to Operation

- Check installation regarding section 4.
- Connect unit to power supply.

6 Service and Maintenance

The polycarbonate window of the door may just be cleaned with antistatic plastics cleaner (i.e. from Company AKU) and a soft cloth to avoid stress cracking and damage of the antistatic coating. The inner walls of the chamber can best be cleaned with ordinary window cleaner or pure alcohol.


7 Troubleshooting

Error	Possible Cause	Solution
Radiation does not start with closing of the chamber door.	<ul style="list-style-type: none">– Connection cable (XS9) to Chamber is disconnected or defective.– Door switch faulty.	<ul style="list-style-type: none">• Check the cables and reconnect or change the cable if necessary.• Henkel Service.

8 Spare Parts and Accessoires

Pos.	Description	Type No.	Order No.
1	Connection Cable XS9	2804960	2804960

9 Declaration of Conformity

Declaration of Conformity	
The Manufacturer according to the EC regulations	Henkel AG & Co. KGaA Fenestrae 67, 40191 Düsseldorf Deutschland
declares that the unit designated in the following is, as a result of its design and construction, in accordance with the European regulations, harmonized standards and national standards listed below.	
Designation of the unit	LED Flood Chamber 2804959
Unit number	2804959
Applicable EC Regulations	EC Directive of Machinery 2006/42/EC EC Directive for Electro-Magnetic Compatibility 2014/30/EU EC Directive of Low Voltage 2014/35/EU EC Directive of RoHS 2011/65/EU EC Directive of WEEE 2012/19/EU
Applicable harmonized standards	DIN IEC/TR 62778:2014-03;DIN SPEC 42778:2014-03, DIN EN 60947-5-1:2010, DIN EN ISO 14119:2014, EN 60664-1:2007, EN 61810-1:2015, EN 60320-1:2001+A1:2007, EN 60939-2:2005, EN 60204-1; VDE 0113-1
Authorized person for technical files	Henkel AG & Co. KGaA Fenestrae 67, 40191 Düsseldorf Deutschland
Düsseldorf, 2022-03-03	 (D. Majid) Business Director AG Germany/Switzerland Site Manager Düsseldorf

10 Equipment Warranty

Henkel expressly warrants that all products referred to in this Instruction Manual for Loctite® EQ CL42 LED Flood Chamber (hereafter called “Products”) shall be free from defects in materials and workmanship. Liability for Henkel shall be limited, as its option, to replacing those Products which are shown to be defective in either materials or workmanship or to credit the purchaser the amount of the purchase price thereof (plus freight and insurance charges paid therefor by the user). The purchaser’s sole and exclusive remedy for breach of warranty shall be such replacement or credit.

A claim of defect in materials or workmanship in any Products shall be allowed only when it is submitted in writing within one month after discovery of the defect or after the time the defect should reasonably have been discovered and in any event, within (12) months after the delivery of the Products to the purchaser. This warranty does not apply to perishable items, such as fuses, filters, lights, etc... No such claim shall be allowed in respect of products which have been neglected or improperly stored, transported, handled, installed, connected, operated, used or maintained. In the event of unauthorized modification of the Products including, where products, parts or attachments for use in connection with the Products are available from Henkel, the use of products, parts or attachments which are not manufactured by Henkel, no claim shall be allowed.

No Products shall be returned to Henkel for any reason without prior written approval from Henkel. Products shall be returned freight prepaid, in accordance with instructions from Henkel.

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Manual P/N: n/a, Rev A, Date: 10/18/2021

