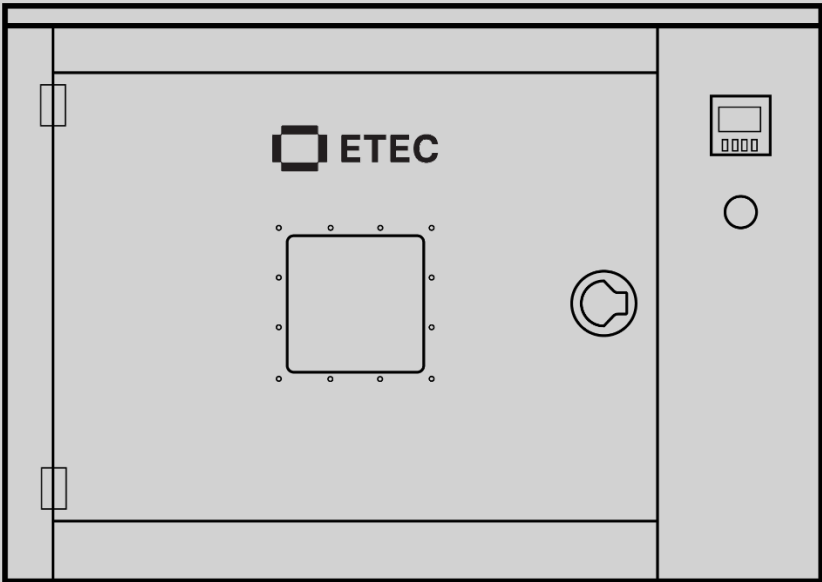


English



This Guide applies to the EnvisionTEC UVCA 3000 curing unit.

FCC Compliance Information

These devices comply with part 15 of the FCC Rules as applicable. Operation is subject to the following two conditions:
(1) These devices may not cause harmful interference, and
(2) these devices must accept any interference received, including interference that may cause undesired operation.

Changes or modifications not expressly approved by EnvisionTEC could void the user’s authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.

ISED compliance information

This device complies with the Industry Canada’s license-exempt RSSs. Operation is subject to the following two conditions:
(1) This device may not cause interference; and
(2) This device must accept any interference, including interference that may cause undesired operation of the device.
CAN ICES-003(A) / NMB-003(A)

This document contains information that is confidential and proprietary to Desktop Metal, Inc. and/or its affiliates, including without limitation EnvisionTEC US LLC and ExOne Operating, LLC (each a “DM Company,” and together the “DM Companies”). This information is provided only to authorized representatives or customers of the DM Companies, and solely for the purpose of facilitating the use of DM Companies’ products and services. This document and its contents shall not be used or distributed for any other purposes or communicated, disclosed, or copied except as agreed by a DM Company in writing.

The information contained herein is provided for reference only and subject to change without notice. This document provides general information about the products described herein and is not a substitute for the Instructions For Use and Safety Data Sheets for said products. The DM Companies shall not be liable for omissions or for technical or editorial errors contained herein or for any damages whatsoever arising in connection with the furnishing or use of this document. This information is not intended to be used to determine the suitability or reliability of the user’s specific applications or environments; these determinations are the sole responsibility of the user, and the DM Companies disclaim all liability associated therewith. Without limiting the foregoing, the user is solely responsible for the use and operation of the products and services, including the disposal of waste products in connection therewith.

This document does not supplement, replace or otherwise modify the terms and conditions that govern the purchase and sale or use of DM Companies’ products or services. Furthermore, nothing herein shall constitute a warranty; the only warranties for DM Companies’ products and services are those set forth in the express warranty statement in the terms and conditions of sale for said products and services.

Desktop Metal, the DM Logo, Bound Metal Deposition, BMD, Live Parts, Studio System, Shop System, Fabricate, Fiber, Production System, Desktop Health, Desktop University, Flexcera, Einstein and EnvisionTec are trademarks of Desktop Metal, Inc. EnvisionTEC, Envision One, cDLM, Vida, Perfactory, D4K, Hyperprint and Xtreme 8K are trademarks of EnvisionTec GmbH and its affiliates. ExOne, the ExOne Logo, Innovent, Innovent+, InnoventX, X25Pro, X160Pro, X1, S-Max, S-Print, CleanFuse, NanoFuse, and HydroFuse are trademarks of ExOne Operating, LLC or its affiliates. All other trademarks used herein are the property of their respective owners.

© 2022 Desktop Metal, Inc. All rights reserved.
UVCA 3000 Compliance & Safety Guide: 81-00243_Rev_01_EN, December 2022



The full text of the EU Declaration of Conformity is available at the following Internet address:
<https://knowledge.envisiontec.com/hc/en-us>



EU WEEE Directive 2002/96/EC

This equipment at the end of life must be discarded in accordance with the National or Local Regulations. Please contact your dealer or supplier for further information.

Manufacturer:

EnvisionTEC US LLC
A Desktop Metal Company
15162 S. Commerce Dr. Dearborn,
Michigan 48120, USA

All rights reserved.
Subject to change without notice.
<https://etec.desktopmetal.com/>
December 2022

Product Overview

The UVCA 3000 is for post-processing of UV-sensitive curing materials for industrial and consumer goods applications. This final step after 3D printing and cleaning a printed part results in higher strength and stability as well as ensuring a thorough cure. The UVCA 3000 for Xtreme 8K includes a rotating inner table to maximize exposure of all parts of the model to the UV light.

Safety Procedures and Protocols











READ THESE SAFETY INSTRUCTIONS PRIOR TO INSTALLING, OPERATING OR PERFORMING MAINTENANCE ON THE PRINTER. DO NOT DISCARD.

Conventions




	Indicates a hazardous situation that, if not avoided, will result in death or serious injury.
	Indicates a potentially hazardous situation that, if not avoided, could result in death or serious injury.
	Indicates a hazardous situation that, if not avoided, could result in minor or moderate injury.
NOTICE	Indicates important information or a situation that if not avoided, could result in equipment or property damage.

Safety Pictograms










	Lifting hazard: Indicates possibility of strain or other injury when lifting heavy objects.
	Electrical hazard: Indicates risk of electrical shock which can cause serious injury or death.
	Safety ground (PE)




	Hot surface: Indicates risk of burns due to heated areas or surfaces. Avoid areas marked with this label.
	General warning sign
	UV Radiation
	Flammable material
	Respiratory hazard
	Environmental hazard
	Toxicity hazard
	Consult User Manual for instruction for use.

Mandatory Action Signs


		
Use protective hand wear	Use UV rated protective goggles	Use protective clothing

Curing Unit Safety Warnings

 WARNING	<p>Risk of electric shock: Hazardous voltage electricity is accessible behind the access panel. Electrical energy can cause severe burns or death, as well as fire. Access panels are for service only and should be opened only by certified service personnel or trained maintenance personnel.</p>
 WARNING	<p>Risk of electric shock or fire: Do not operate the equipment if the housing, power cables, or any components are damaged.</p>
 WARNING	<p>Risk of chemical exposure: Wear personal protective equipment (PPE) when replacing bulbs. A broken bulb may result in exposure to phosphor powder dust and to elemental mercury vapor. The phosphor contains thallium, which can be absorbed through the skin or inhaled.</p>
 WARNING	<p>Risk of electric shock: Do not replace the bulbs while the Curing Unit is connected to a power source.</p>
 WARNING	<p>Multiple electrical and health hazards: Always replace the light bulbs with 36W type specified by EnvisionTEC.</p>
 WARNING	<p>Multiple mechanical and electrical hazards: Do not make modifications to the equipment or attempt to circumvent any protective devices. Use of the equipment in a manner not specified by EnvisionTEC may result in injury or damage to the product. Observe all hazard warning signs during operation and service.</p>
 WARNING	<p>Fire hazard: Do not place any flammable materials inside the Curing Unit. Parts must be dried before processing to avoid creation of flammable vapors.</p>
 CAUTION	<p>Risk exposure to UV light: The UVCA 3000 curing unit uses light sources of high-energy UV rays that can cause serious harm to the eyes and skin. Do not bypass the door interlock. During servicing, avoid direct or indirect exposure to such emissions even for short periods of time.</p>
 CAUTION	<p>Risk exposure to hot surface: The UVCA 3000 utilizes the heat generated by the lamps to accelerate the curing process of the resins. Allow parts to cool down before touching. Use gloves as the cured models and curing unit may be very hot.</p>

 <p>CAUTION</p>	<p>Health risk: Wear safety goggles when working with uncured parts. Check resin SDS for compatibility with use of contact lenses.</p>
 <p>CAUTION</p>	<p>Respiratory hazard: The materials cured in the UVCA 3000 could generate fumes that are harmful to health. Position and use the Curing Unit in a well-ventilated place. Avoid breathing vapors.</p>
 <p>CAUTION</p>	<p>Risk of chemical exposure: Wear gloves when handling uncured materials or touching surfaces that may contain the resin. Refer to material SDS for choice of gloves.</p>
<p><i>NOTICE</i></p>	<p>Place the Curing Unit away from heat sources, flammable materials, and liquids that may cause a safety risk. Clean the unit only with a clean, dry cloth. Do not expose to water.</p>

Users in California: California Proposition 65

 <p>WARNING</p>	<p>Cancer and Reproductive Harm: This product can expose you to Carbon Black which is known to the State of California to cause cancer, birth defects or other reproductive harm. For more information go to:</p> <p>http://www.p65warnings.ca.gov/</p>
---	---

General Safety

All general workplace safety rules should be followed when operating the curing unit. It is the responsibility of the user to ensure compliance with all local, regional, and national regulations. Additionally, it is the responsibility of the user to ensure that the system is installed and maintained properly by EnvisionTec.

Materials Safety

Safety data sheets (SDS) for materials used in the curing process are available either from EnvisionTec or directly from suppliers. Read and understand the information provided in these documents prior to attempting to operate the curing unit or handle any media.

If SDS indicates presence of a substance with an established occupational exposure limit, the Employer is responsible for exposure controls.

Note: Make sure the extraction is sufficient. EnvisionTEC recommends an air change of 25 m³/h per m² effective surface of the laboratory per EN 13779 or 3.2 m³/h per m² per US ANSI ASRAE 62. Check local requirements.

For accident prevention, make sure all operators wear suitable protective clothing:

- protective gloves
- laboratory coats
- safety goggles

First Aid

If you are injured while operating the curing unit or handling media, refer to any first aid directions included in the material SDS. If minor injury occurs—such as cuts, bruises, lifting injuries, or other related injuries—generally accepted first aid procedures should be followed. If serious injury occurs, procedures for contacting emergency first responder personnel should be immediately implemented.



Manufacturer:

EnvisionTec US LLC
A Desktop Metal Company
15162 S. Commerce Dr.
Dearborn, Michigan 48120
USA

<https://etec.desktopmetal.com/>

All rights reserved.

Subject to change without notice.

Desktop Metal, Inc.
63 3rd Avenue
Burlington, MA 01803
www.desktopmetal.com

Desktop Health
c/o Desktop Metal, Inc.
63 3rd Avenue
Burlington, MA 01803
<https://health.desktopmetal.com/>

EnvisionTec GmbH
Brusseler Str. 51
45968 Gladbeck
Germany

ExOne Operating, LLC
127 Industry Boulevard
North Huntingdon, PA 15642
www.exone.com

ExOne GmbH
Daimlerstrasse 22
86368 Gersthofen
Germany

ExOne KK
161-5 Haneo
Odawara-shi, Kanagawa
Japan 256-0804