



CHAMBER-HG datasheet

Plug & Play UV curing oven

Easy-to-use & secure equipment



Last generation of UV Mercury bulbs integrated from IST INTECH

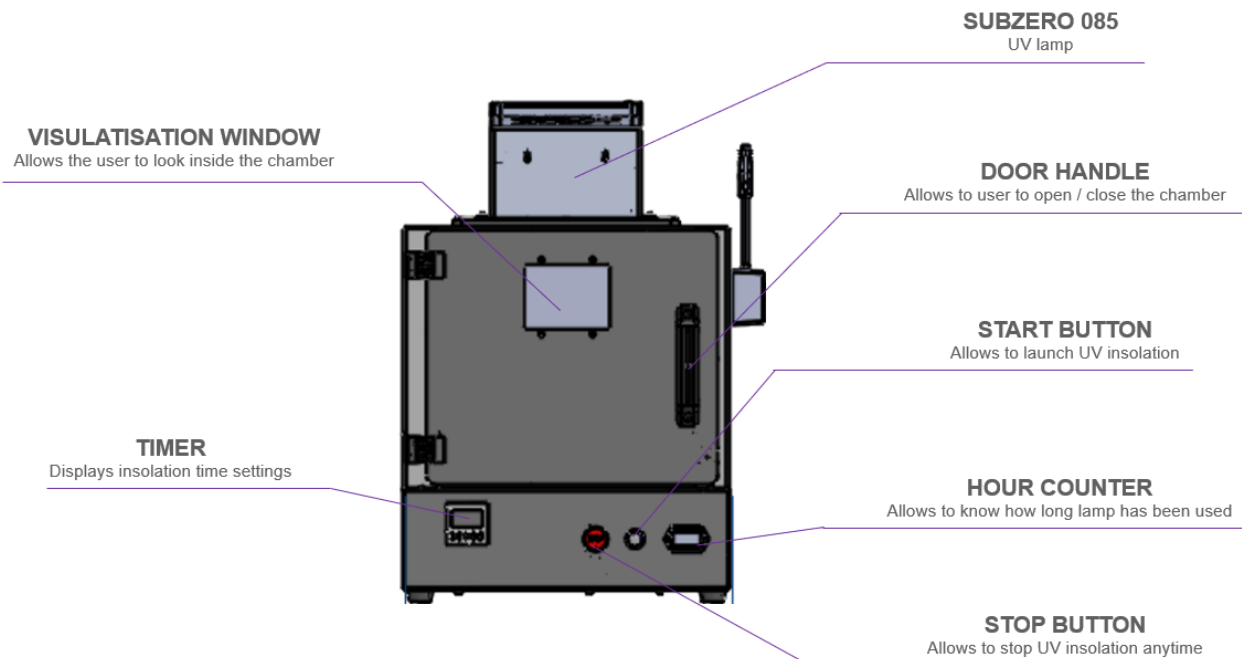
Electronics	Power supply	Single phase 64 to 240 VAC $\pm$ 10%, 50/60 Hz Maximal power consumption: 900W including 100W/cm for the UV bulb
	User interface	TIMER (insolation time), POTENTIOMETER (UV power), START, STOP
	Door security	The UV lamp automatically shuts off when door is opened. No UV leaks.
Optics	One UV lamp (Arc length of 85mm) is integrated on the CHAMBER with the following optical specifications:	
	Wavelength	Wide UV spectrum thanks to mercury technology (see optical section)
	Output irradiance <i>SUBZERO-085 model</i>	Up to 350 mW/cm ² in the UVA range Up to 400 mW/cm ² in the UVB range Up to 90 mW/cm ² in the UVC range
Mechanics	Width x Height x Length	382mm x 306mm x 605mm
	Weight	16kg without lamp and 18kg with lamp on the top. Power supply: 9kg.
	Material	Device body: Aluminum alloy
	IP rating	IP40
Environment	Operation	Temperature: 10°C to 35°C – Humidity: 20% to 80% humidity (with no condensation) – Altitude: Up to 2000m
	Compliances (SUBZERO)	ISO CE 60950-1, UL CUL CB 60950-1, CE EN 60204, EMC EN 55015, EMC EN 61000
	Compliances (CHAMBER-HG)	CE, UKCA, FCC, RoHS III Directives - REACH Regulation - WEEE Regulation



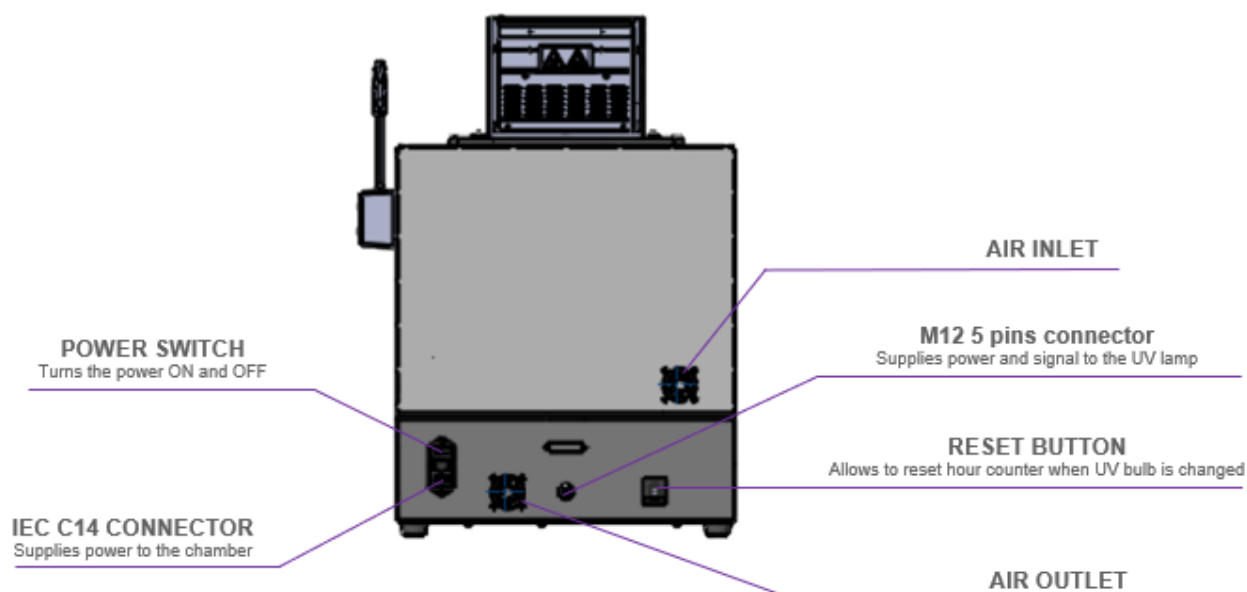
General information

Presentation of parts

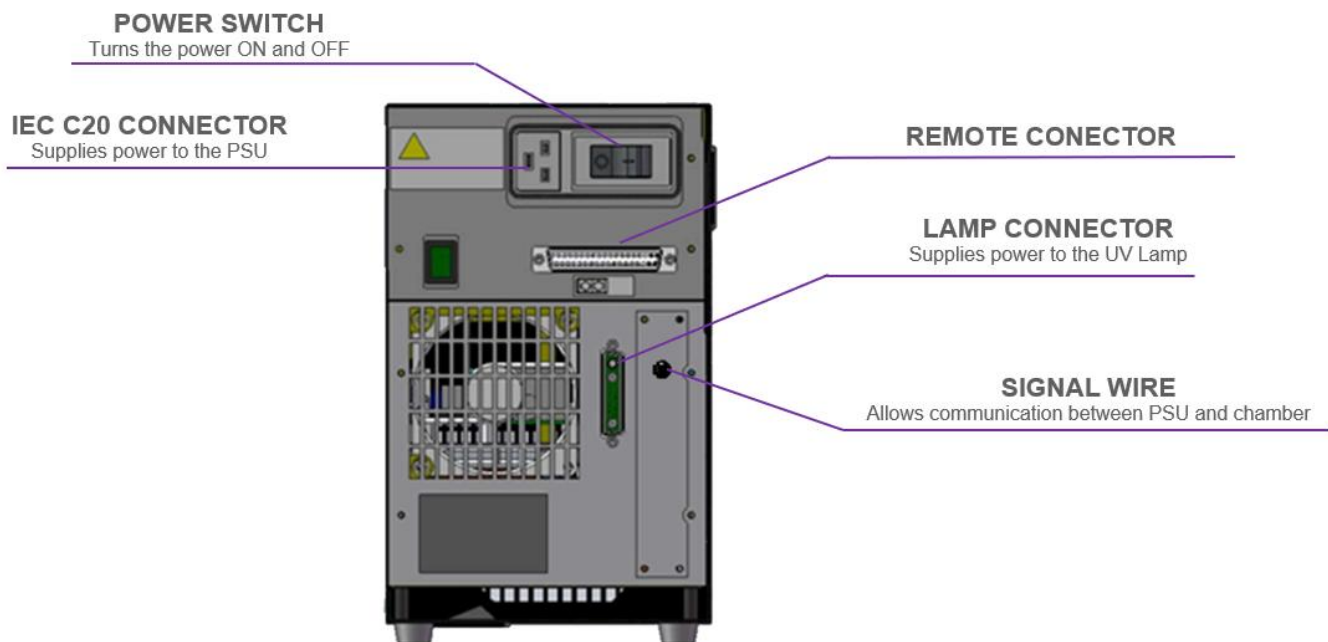
CHAMBER-HG front side



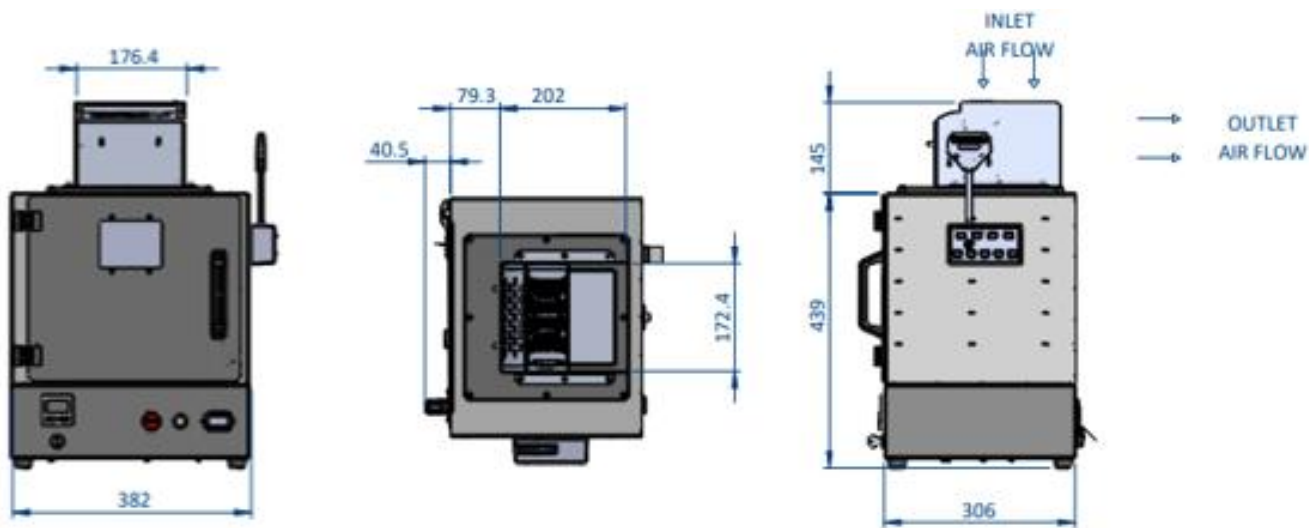
CHAMBER-HG rear side



POWER SUPPLY UNIT (PSU)



Dimensions [in mm]





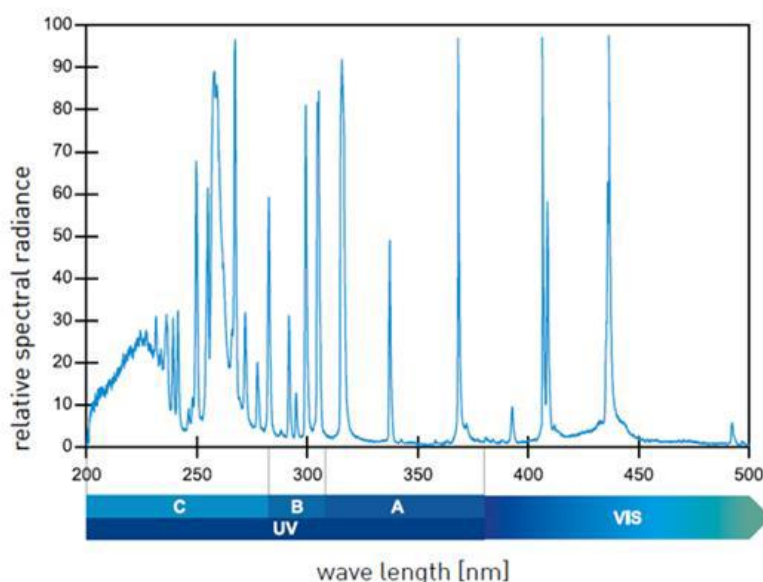
Optical characteristics

IST INTECH SUBZERO SHUTTERED STANDARD FEATURES:

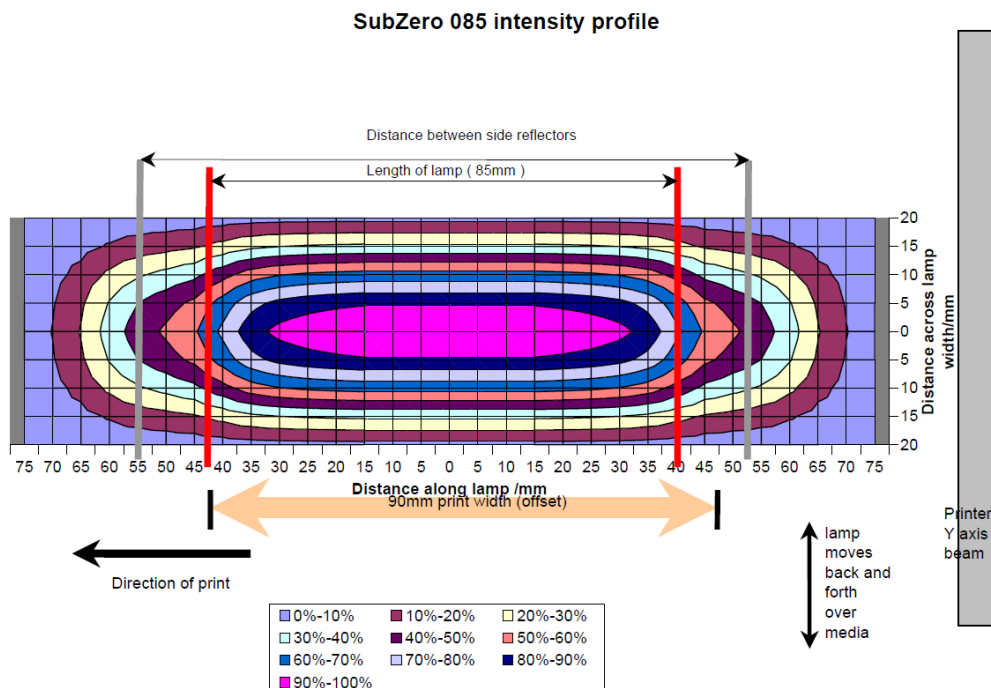
- Ultra compact "footprint"
- High intensity reflector system
- Double quartz filter system with replaceable front quartz
- Quick change Cassette for easy maintenance
- Rapid Warm up (2 minutes maximum) and cool down (5minutes maximum)
- Integrated smart air-cooling
- Long service life of the shutter >30 million cycles
- **No Ozone extraction needed (Please ask for the Ozone statement)**
- *Arcs with the length of 55, 140, 170, 220 or 280 mm are also available*



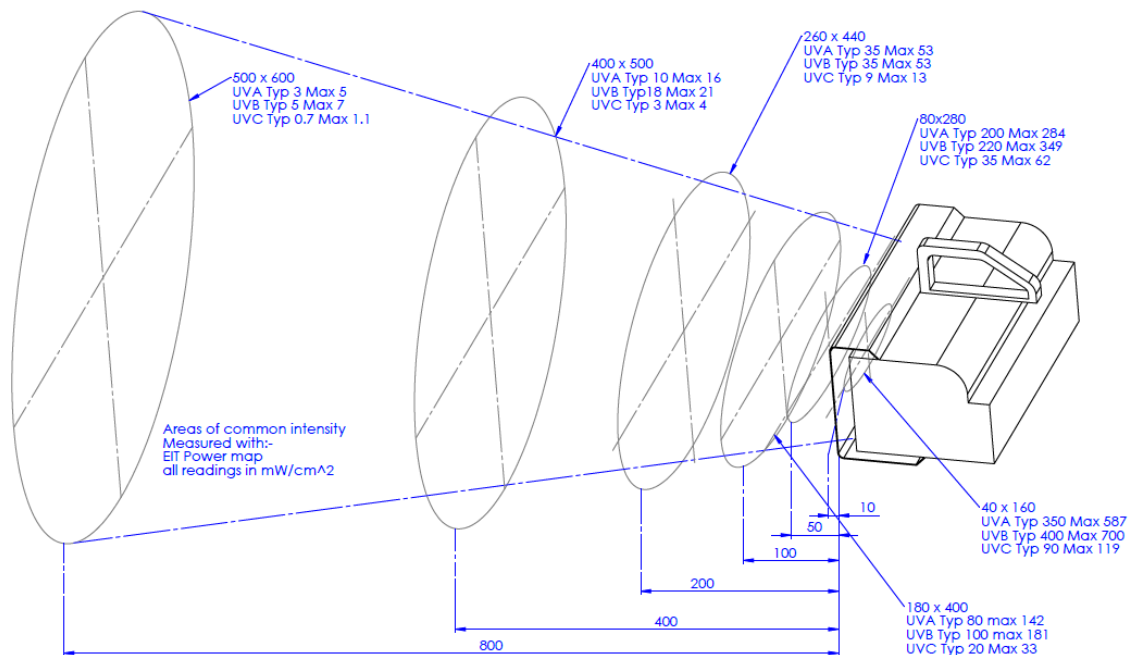
Spectrum given by a SUBZERO system:



Irradiance map for a SUBZERO-085 lamp:



Optical specifications given for a SUBZERO-170 lamp:





UV security

UV CHAMBER and UV OVEN ranges from UWAVE are secured units to work safely without PPE like gloves or glasses and avoid direct exposition to UV rays:

- When a UV cycle is running, UV emission is stopped immediately if the door is opened by the user.
- No leaks of light through openings and edges thanks to smart mechanical designs.
- Visualization window allow the user to look inside the unit with no risks, with its 99,9% UV protection rate.

Thanks to its experience and knowledge about UV risks, UWAVE offers to its customers a wide range of UV measurement devices & services:

UV measurement	EIT POWERPUCK: UV values recording. 		
UWAVE expertise	EXPOSURE LIMIT VALUE  According to European Directive 2006/25/EC.	PERFORMANCES QUALIFICATION  Monitoring of all performances of your device.	MAINTENANCE & REPAIR  Preventive maintenance on site & LED repair service.

UWAVE products come under the standard DIN EN 62471:2008 which classified sources of optical radiation into risk groups subject to their potential photo biological hazard. Due to the emission of high UV irradiation, our products belong to Risk Group 3 (hazardous even for momentary exposure) therefore special safety measures, detailed in the following, must be observed.

