



## **UV - Disinfecting Cabinets**

**CROMACO HEALTH CARE SYSTEMS  
MAILAT COMPLEX ,MUNESHWARA BLOCK,  
JOSY LAYOUT, PIPELINE RD.  
T. DASARAHALLI  
BANGALORE 560057  
[www.cromaco.com](http://www.cromaco.com) .**

**Email: [cromacohealthcare@gmail.com](mailto:cromacohealthcare@gmail.com)  
Ph:9611133877, 7618778069**

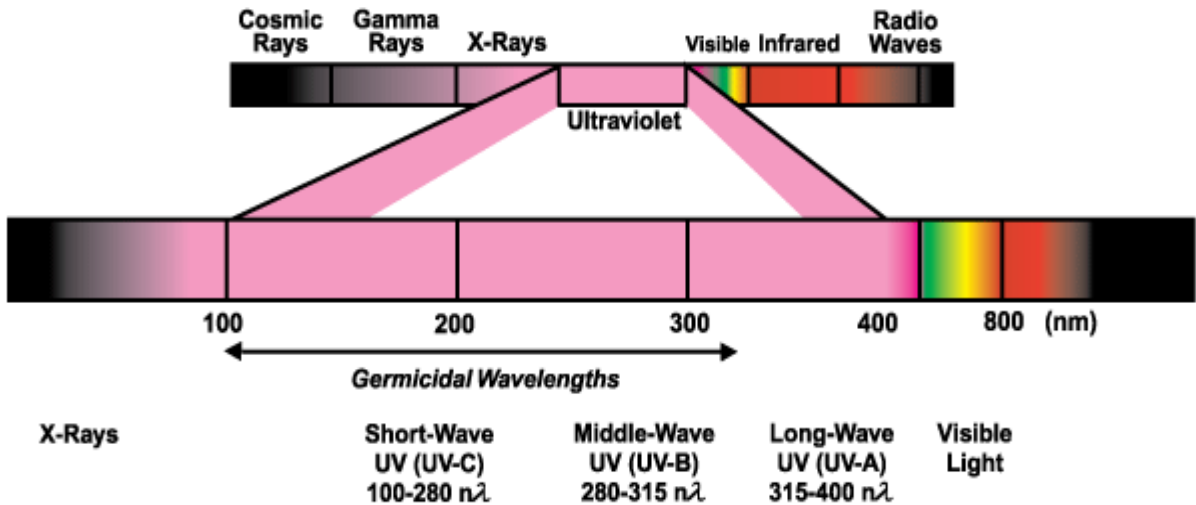
## What is ultraviolet?

Ultraviolet light is part of the light spectrum, which is classified into three wavelength ranges:

UV-C, from 100 nanometers (nm) to 280 nm

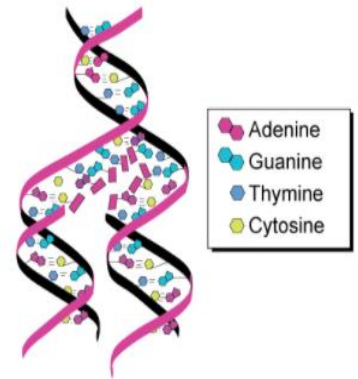
UV-B, from 280 nm to 315 nm

UV-A, from 315 nm to 400 nm



## What is germicidal ultraviolet?

UV-C light is germicidal – i.e., it deactivates the DNA of bacteria, virus and other pathogens and thus destroys their ability to multiply and cause disease. Specifically, UV-C light causes damage to the nucleic acid of microorganisms by forming covalent bonds between certain adjacent bases in the DNA. The formation of such bonds prevent the DNA from being unzipped for replication, and the organism is unable to reproduce. In fact, when the organism tries to replicate, it dies.



## What are the beneficial uses of germicidal ultraviolet?

Ultraviolet technology is a non-chemical approach to disinfection. In this method of disinfection, nothing is added which makes this process simple, inexpensive and requires very low maintenance. Ultraviolet purifiers utilize germicidal lamps that are designed and calculated to produce a certain dosage of ultraviolet. The principle of design is based on a product of time and intensity – you must have a certain amount of both for a successful design.

## Cromaco Ultraviolet Disinfecting cabinet

Cromaco make UV Cabinets has effective UV sterilization ability to deactivate Bacteria, Germs, Viruses and Protozoa and helps also to maintain & preserve objects kept for disinfection without any fear of contamination of micro organisms once they are cleaned by washing or other means. The cabinet is equipped with Germicidal Tube which efficiently emits a large amount of ultraviolet rays at wavelength 253.7nm which have excellent germicidal effect and thereby prohibiting growth and reproduction of micro organisms.

Cromaco make Disinfecting cabinets are made of highly durable materials like Galvanized Steel with powder coating or 304 Grade Stainless steel panels (0.8/1mm) with Poly-Urethane Foam sandwiched between panels for sound absorption and added rigidity. It also ensures a leak tight chamber from harmful UV Radiation. The cabinets are equipped with high quality electrical components and circuitry elements to ensure durability and long service life. Safety features like UV Light cutoff during door opening and over load Fuse etc are provided. Strong Rigid Stainless Steel Mesh racks are provided for placing objects of disinfection. Each model is tested and approved by IISC Bangalore for Efficacy to kill Corona Virus and safety for human operation.

### Applications:

The Disinfecting cabinet can be used in Wide areas for surface disinfection of objects in hospitals, clinics, dental clinics for disinfecting tools, instruments, hand used equipment,. In offices, banks, institutions, showrooms, shops hotels, restaurants, lodges it can be widely used to disinfect personal /office accessories like wallets, mobile phones, belts, calculators , pens ,spectacles etc. Its application is immense for spas, salons, beauty parlours for sterilizing instruments and tools to maintain personal hygiene. It can be used at homes too for disinfecting articles of daily use at home

### Models Available:

SL	MODEL	DESCRIPTION OF Models Available:MATERIAL	EXTERNAL DIMENSIONS IN mm.
1	GI-55L	GALVANIZED STEEL OUTER PANEL WITH POWDER COATING AND SS304 POLISHED INNER PANELS	450(W)X550(H)x350(D)
2	SS- 55L	SS304 OUTER PANELWITH SS 304 POLISHED INNER PANELS	450(W)X550(H)x350(D)
3	GI-95L	GALVANIZED STEEL OUTER PANEL WITH POWDER COATING AND SS304 POLISHED INNER PANELS	600(W)x650(H)x350(D)
4	SS- 95L	SS304 OUTER PANELWITH SS 304 POLISHED INNER PANELS	600(W)x650(H)x350(D)
5	GI-395 L	GALVANIZED STEEL OUTER PANEL WITH POWDER COATING AND SS304 POLISHED INNER PANELS	600(W)x1800H)x600 (D)
6	SS- 395L	SS304 OUTER PANELWITH SS 304 POLISHED INNER PANELS	600(W)x1800H)x600 (D)



# UV- Disinfecting Cabinet - 55L

Deactivates 99.9% Viruses, Bacteria and Pathogens



## Applications

The Disinfecting cabinet can be used in Wide areas for surface disinfection of objects in hospitals, clinics, dental clinics for disinfecting tools, instruments, hand used equipment, In offices, banks, institutions, showrooms, shops hotels, restaurants, lodges spas and salons. it can be widely used to disinfect personal /office accessories like wallets, mobile phones, belts, calculators , pens ,spectacles, laptops, hand bags etc. Also safe to use for surface disinfection of fruits, vegetables (with smooth surfaces)

## Specifications

- 30W Osram /Philips UVC Germicidal lamps 254nm (15WX2)
- Size 450X550X350mm available in Strong , durable 304 Stainless Steel 304 & Galvanized steel with powder coating options
- High Quality polished SS Internal Reflectors for 360 Degree Max. Radiance
- Easily removable Stainless Steel Mesh Racks - 2nos
- Programmable Digital timer for duration setting, (disinfecting cycle duration: 5-10 minutes)
- Safety interlock with UV Lamp Power Off during door open
- Electronic Ballasts for long life of UV Lamps- Service life 7000-8000Hrs
- Power: 35W ,220V-240V, 50-60Hz, .
- Scientifically designed. Tested and Reported effective against Corona Viruses and Safe for human operation

# UV- Disinfecting Cabinet - 95L

Deactivates 99.9% Viruses, Bacteria and Pathogens



## Applications

The Disinfecting cabinet can be used in Wide areas for surface disinfection of objects in hospitals, clinics, dental clinics for disinfecting tools, instruments, hand used equipment, In offices, banks, institutions, showrooms, shops hotels, restaurants, lodges spas and salons. it can be widely used to disinfect personal /office accessories like wallets, mobile phones, belts, calculators , pens ,spectacles, laptops, hand bags , even up to lap top bag etc. Also safe to use for surface disinfection of fruits, vegetables (with smooth surfaces)

## Specifications

- 32W Osram /Philips UVC Germicidal lamps 254nm (16WX2)
- Size 600X650X350mm available in Strong , durable 304 Stainless Steel 304 & Galvanized steel with powder coating options
- High Quality polished SS Internal Reflectors for 360 Degree Max. Radiance
- Easily removable Stainless Steel Mesh Racks - 2nos
- Programmable Digital timer for duration setting, (disinfecting cycle duration: 5-10 minutes)
- Safety interlock with UV Lamp Power Off during door open
- Electronic Ballasts for long life of UV Lamps- Service life 7000-8000Hrs
- Power: 35W ,220V-240V, 50-60Hz, .
- Scientifically designed. Tested and Reported effective against Corona Viruses and Safe for human operation

# UV- Disinfecting Cabinet - 395L

Deactivates 99.9% Viruses, Bacteria and Pathogens



*Applications: Hospitals, clinics for eliminating risks of HAIs-Healthcare acquired infections. Hotels, Restaurants for sanitizing cutlery & tableware, offices for surface disinfection of office supplies*

## Specifications

- 204W Osram /Philips UVC Germicidal lamps 254nm (36Wx4 & 16Wx4)
- Size 600X1800X600mm available in Strong , durable 304 Stainless Steel 304 & Galvanized steel with powder coating options
- High Quality polished SS Internal Reflectors for 360 Degree Max. Radiance
- Easily removable Stainless Steel Mesh Racks - 5nos
- Hanger rod for Lab Coats and Apron coats
- Customizable accessories on requests
- Trolley wheels with lockable front wheels for easy movement
- Programmable Digital timer for duration setting, (disinfecting cycle duration: 3 minutes)
- Safety interlock with UV Lamp Power Off during door open
- Cabinet LED light provided- 6w, automatically on with door open
- Electronic Ballasts for long life of UV Lamps- Service life 7000-8000Hrs
- Power: 225W ,220V-240V, 50-60Hz, .
- Scientifically designed. Tested and Reported effective against Corona Viruses and Safe for human operation

# CERTIFICATIONS

The Cromaco cabinets of 395 L and 95L were tested in laboratory at Indian Institute of Science. According to the literature, the minimum irradiance required to treat coronavirus is about 611 Micro Joules/cm<sup>2</sup> @ 254 nm. Based on the calculation from the setup the units achieved >2110 Micro Joules/cm<sup>2</sup> at the racks. The wavelength of UV-C Rays and the intensity is sufficient to deactivate the family of corona viruses ,bacteria, to extent of 99.99%. There were no blind spots inside the system and no UV –C leakage outside of the box. This proves the efficacy of the system. Leakage for the wavelength of UV-C Rays was checked across the glass windows too and it was proven to be absent thereby proving safety for human operation.

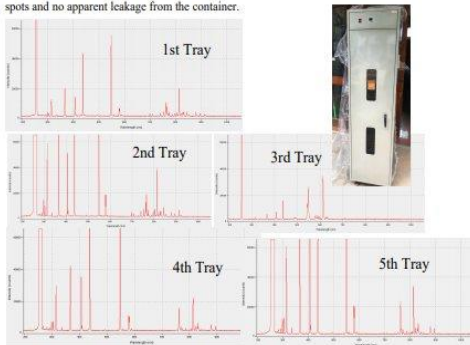
DEPARTMENT of MATERIALS ENGINEERING  
Indian Institute of Science  
BANGALORE



PRAVEEN C. RAMAMURTHY  
Professor

To whom it may concern: 14<sup>th</sup> August 2020

I have tested the CROMACO system that was brought to our laboratory at Indian Institute of Science. According to the literature, the minimum irradiance required to treat coronavirus is about 611 Micro Joules/cm<sup>2</sup> for 254 nm. Based on our calculation from your setup we are getting >2110 Micro Joules/cm<sup>2</sup> at various positions from the light source. In addition, there is no apparent blind spots and no apparent leakage from the container.



Feel free to contact me if you require further information.

With best regards

*Praveen C.R*  
Praveen C Ramamurthy

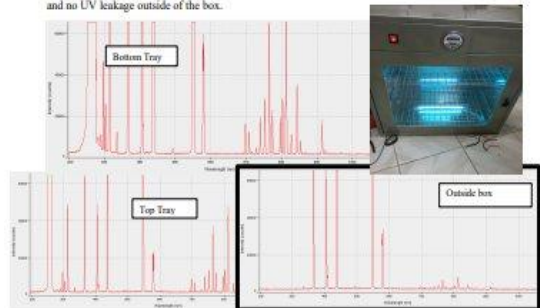
DEPARTMENT of MATERIALS ENGINEERING  
Indian Institute of Science  
BANGALORE



PRAVEEN C. RAMAMURTHY  
Professor

To whom it may concern: 6<sup>th</sup> June 2020

I have tested the Cromaco system that was brought to our laboratory at Indian Institute of Science. According to the literature, the minimum irradiance required to treat coronavirus is about 611 Micro Joules/cm<sup>2</sup> @ 254 nm. Based on our calculation from your setup we are getting >2110 Micro Joules/cm<sup>2</sup> at a distance of about 25 cm. There appears to be no blind spots inside the system and no UV leakage outside of the box.



Feel free to contact me if you require further information.

With best regards

*Praveen C.R*  
Praveen C Ramamurthy



ISO CERTIFICATION OF QMS FROM  
KVQA FOR MANUFACTURING TO  
ASHIRWAD TECHNOCRATS





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Email: [cromacohealthcare@gmail.com](mailto:cromacohealthcare@gmail.com)  
Ph:9611133877, 7618778069**