

RAYOX®

Collimated Beam Unit

Description

Calgon Carbon Corporation's Rayox Collimated Beam Unit is designed to expose liquid or solid samples to UV light on a batch basis. The system is fail-safe, ensuring operator safety and protection of critical equipment components, making it an ideal addition to any university or independent laboratory.

This unit is used for bench-scale studies using a medium or low-pressure UV lamp, allowing a wide range of testing capabilities. The desired specimen is first placed in a petri dish directly under the collimator tube. The Rayox Collimated Beam Unit is then used to apply a specified UV dose to the sample. Direct contact with UV light for a pre-determined length of time results in a UV dose which is determined by the operator and can easily be adjusted with each sample, giving the operator complete control over their testing environment.

The Collimated Beam Unit houses a single high-powered Calgon Carbon ultraviolet lamp with a shutter that can be opened and closed to allow the UV light to expose the sample under a controlled environment. The device is mounted on a portable trolley to allow for easy system relocation. In addition, a radiometer can be added to measure the UV radiance.

Calgon Carbon's UV Technologies Division has been a leader in UV disinfection and oxidation equipment for over 20 years. Our equipment is unsurpassed in disinfecting drinking water and destroying virtually any organic contaminant present in groundwater and process streams. Our entire full scale Sentinel® and Rayox product lines have been designed using Collimated Beam test results.

System Features

- Air cooling fan for lamp assembly
- Power supply cabinet is NEMA 12 rated
- All systems comply with NFPA National Electric Code regulations
- Easy installation and start-up

System Specifications

- Rayox Collimated Beam system - trolley mounted
- One (1) Calgon Carbon medium pressure UV lamp (low-pressure optional)
- Shipping weight: 150 lb./68 kg
- Approximate dimensions: 30" L x 24" W x 66" H
- Power supply: 120 VAC, 60Hz, 1ph, 12Amp
- Lamp start push-button
- Lamp hour counter
- Analog lamp current and voltage displays
- Shutter up/down switch
- UV radiometer (optional)



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