

ST 600

Med-Cart/WOW Disinfection



ST-600 Electrical Specifications

- 7 Amps, 120Vac
- Single Phase, 50/60 Hz.

ST-600 Mechanical Dimensions

- Width: 3 ft 8 in.,
- Depth: 3 ft, H: 8 in.
- Hexagonal Shape
- Weight: 304 Lbs.

ST-600 UV-C Average Exposure Rate

- 5 minutes = 600 mJ/cm²
- 10 minutes = 1200 mJ/cm²
- 15 minutes = 1800 mJ/cm²
- 20 minutes = 2400 mJ/cm²
- 25 minutes = 3000 mJ/cm²
- 30 minutes = 3600 mJ/cm²

SAFETY FEATURES

CAUTION – Read all warnings and instructions before using this product.

WARNING – Do not modify this product or attempt to bypass any safety systems. Risk of fire/electric shock will result in product modification.

WARNING – UV-C radiation can cause severe skin burns and eye injuries. Avoid direct skin exposure to UV-C radiation, never look directly into a UV-C light source.

WARNING – Do not modify this product. Any modifications can cause UV-C leakage.

CAUTION – UV-C light can cause early degradation of some materials. Do not put in any items in the enclosure that can be damaged by UV-C light.

CAUTION – The florescent lamps reach high temperatures during normal operation and can cause skin burns if touched.

CAUTION – Use gloves when replacing the florescent lamps. The oils from your skin will contaminate the lamp and shorten its useful life.

WARNING – Only connect this product to an electrical system with good equipment grounding.

ST-600 Cabinet Controls

1) Operator Control Panel

- 1- Power Lamp - Pulses for 30 seconds on power up and turns solid green when ready for operation.
- 2- Power Switch – Turns the unit on
- 3- Stop Button - Stop Lamp Cycle Time
- 4- Start Button - Start Lamp Cycle Time
- 5- Touch Screen - Displays Lamp Cycle Time, Set Lamp Cycle Time, UV-C Light On Display, Doors Open and E-Stop Inputs.

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UV-C Cabinet Test Platform and Results

Hexagonal Shaped Cabinet with a Phillips 75W 33.5in T5 TUV Germicidal Fluorescent lamp vertically mounted and centrally located on each panel. Lutron Model UVC-254SD UVC Light Meter with a SinglePlane UVC Light Probe Model S.018579 is used to measure the UV-C dose rate in (mW/cm²). Light Probe is centrally mounted inside the hexagonal cabinet and facing the center of one panel to create a test point. There are 6 total test points. Test Point 1 starts on the right hand door and moves counter clockwise around the cabinet finishing at the left hand door. Fluke Model 52-2 Thermocouple Thermometer using a Type K Thermocouple. Type K Thermocouple is mounted inside the cabinet centrally located on the ceiling.

Time	<u>Point 1</u>	
	mW/cm ²	Temperature
peek at start up	2.50	22.5
5 minutes	2.14	29.0
10 minutes	2.07	32.3
15 minutes	1.95	34.2
20 minutes	1.89	34.8
25 minutes	1.86	35.5
30 minutes	1.85	35.7
Ave. Dose Rate(ADR) =	2.04	mW/cm ²

<u>Point 2</u>	
mW/cm ²	Temperature
2.16	31.1
2.05	34.5
1.96	35.8
1.88	36.3
1.85	36.3
1.82	36.6
1.81	36.9
1.93	mW/cm ²

<u>Point 3</u>	
mW/cm ²	Temperature
2.43	25.2
2.46	31.8
2.21	35.7
1.93	36.3
1.85	37.3
1.74	37.4
1.72	37.6
2.05	mW/cm ²

Time	<u>Point 4</u>	
	mW/cm ²	Temperature
peek at start up	2.10	21.1
5 minutes	2.05	33.8
10 minutes	1.97	34.1
15 minutes	1.87	34.5
20 minutes	1.84	34.8
25 minutes	1.82	34.5
30 minutes	1.81	34.7
Ave. Dose Rate(ADR) =	1.92	mW/cm ²

<u>Point 5</u>	
mW/cm ²	Temperature
2.35	21.8
2.10	33.6
2.04	34.0
1.94	34.0
1.83	34.3
1.79	34.2
1.78	34.1
1.98	mW/cm ²

<u>Point 6</u>	
mW/cm ²	Temperature
2.44	22.5
2.21	33.9
2.03	34.7
1.91	34.5
1.84	34.5
1.80	34.3
1.79	34.3
2.00	mW/cm ²