

'N 09-160800-0



Water-Guard

DRINKING WATER FROM ANY POINT OF USE ON AN AIRCRAFT IS NOW POSSIBLE!

INTRODUCING UV-C LED

WATER TREATMENT UNIT





09-160801-001 Regular

P/N: 09-160800-001

Vater-Guard

IWG-UVL1: A compact water treatment component that ensures safe drinking water from any point of use on an aircraft.



WATER TREATMENT UNIT

PHYSICAL

Overall Dimensions:

High: 7-3/8" (18.7cm) Wide: 2" (5 cm) Weight: 1.8 Lbs (0.8 Kg)

ELECTRICAL

Imput Voltage: 28 VDC

Power Configuration: 56W for 09-160801-001 Electrical Interface: MS38999 Series Current Draw: Low power capped at 1.2A Regular power consumption is Max 2A Communications: USB/RS-232/RS-485 (Optional)

PERFORMANCE

Temperature: 5°C - 50°C (41°F - 122°F) Output Power: 700mW MAX Dosage Capacity: 16 mJ/cm2 at 1.0 gpm (NSF55 Class B)

PRESSURE/FLOW

Water Pressure: 60 psig (4.1 bar)

Flow Rate: 09-160801-001 is a 0.35gpm

09-160800-001 is 1 GPM

QUALIFICATION

DO-160G Qualified NSF-55 Class B(@ 90 UVT) Verified

IWG-UVL1

IWG's newest water treatment component, IWG-UVL1, was developed using UV-C LED technology and designed for point of use treatment applications. The UVL1 is compact, light and easy to install. The unit's controller provides optimized LED power activation to achieve up to 4.300 hours of treatment and ensure the safety of aircraft water for up to five years or more depending upon the amount of water served.

The UVL1 controller has Power Efficiency Administration, and monitors water flow. dosage, operation hours and abnormal conditions.

The UVL1 was tested at an independent dosimetric testing laboratory that confirmed the unit produces UV-C LED dosage equivalent to an NSF 55 Class B at 1 gpm.

QUALIFICATION PLAN MATRIX. Test Method Category A3 Temperature Category A3 Altitude Temperature Variation Category C Operational Shock & Crash Safety Category B Category S Vibration Category A Waterproofness Category W Fluids Susceptibility Category F Magnetic Affects Category A Power Input Category A Voltage Spike Category A Audio Frequency Susceptibility Category R Category ZC Induced Signal Susceptibility Category T Radio Frequency Susceptibility Radio Frequency Emissions Category M Lighting InducedTransient Effects Category XXG3L3 Electrostatic Discharge Category A Fire, Flammability Category C **Design Assurance Tests** Endurance **Burst Pressure** Proof Pressure