



INTERNATIONAL
Water·Guard



UVI

AIRCRAFT
POTABLE
WATER
TREATMENT
UNIT

WHAT IS UV?

UVC refers to ultraviolet light with wavelengths between 200 - 280 nanometers (nm). Light in the UVC wavelength can be used for disinfecting water, sterilizing surfaces, destroying harmful micro-organisms in food products and in air.

WHY IT WORKS

Provides pathogenic disinfection of the water using UV light at the point of upload from the service water cart before it enters the aircraft potable water tank.

HOW UV WORKS?

UVC radiation, in the range of 250 nm - 280 nm, renders harmful microorganisms such as bacteria and viruses ineffective, by destroying the genetic information in the DNA. The micro-organisms lose their reproductive capability and are destroyed. The germicidal nature of UV is well suited to treat parasites which are extremely resistant to chemical disinfectants, such as Cryptosporidium or Giardia.



The IWG-UV1 represents the latest generation of International Water-Guard's aircraft water treatment units, using proven ultraviolet and sediment filter technology with state of the art design.

Developed for higher flow capability, the unit incorporates all new electronics and full monitoring to integrate with the most advanced water system control or cabin management system.

PHYSICAL

Overall Dimensions:
High: 13.68" (347.47 mm)
Wide: 9.24" (213 mm)
Deep: 4" (102 mm)
Net Weight Dry: 9.5 lbs (4.31 kg)

ELECTRICAL

Input Voltage: 28 VDC (nominal)
Nominal Current Draw: 2.0A at 28 VDC
Electrical Interface: Two 38999 Series 2 Connections
Data Communications: RS-485 half duplex packet protocol.

ENVIRONMENTAL

Temperature Range: 5°C to +40°C (+41°F to +104°F) Operating water temperature
Storage: -40°C to +70°C (-40°F to +158°F dry)
Cooling: By natural connection

PRESSURE/FLOW

Maximum Pressure: 60 PSIG (operating pressure)
Maximum Flow Rate: 4 GPM at NSF class "A" disinfection levels
Pressure Drop: 5 PSID at 4 GPM

STATUS INDICATOR

On Board Indicator: 3 (Three) state indication
Data Communication: Operational status and control

QUALIFICATION

RTCA/DO-160G
FAA/TCCA/EASA Airworthiness requirements

