



INTERNATIONAL
Water·Guard

(PN 09-130321-001)

IWG-UV3

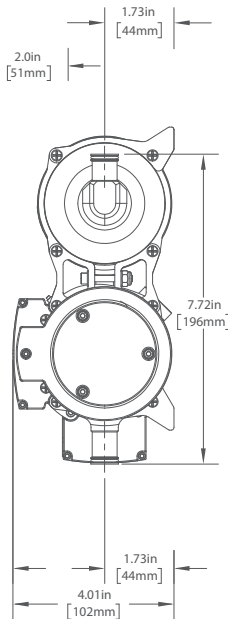
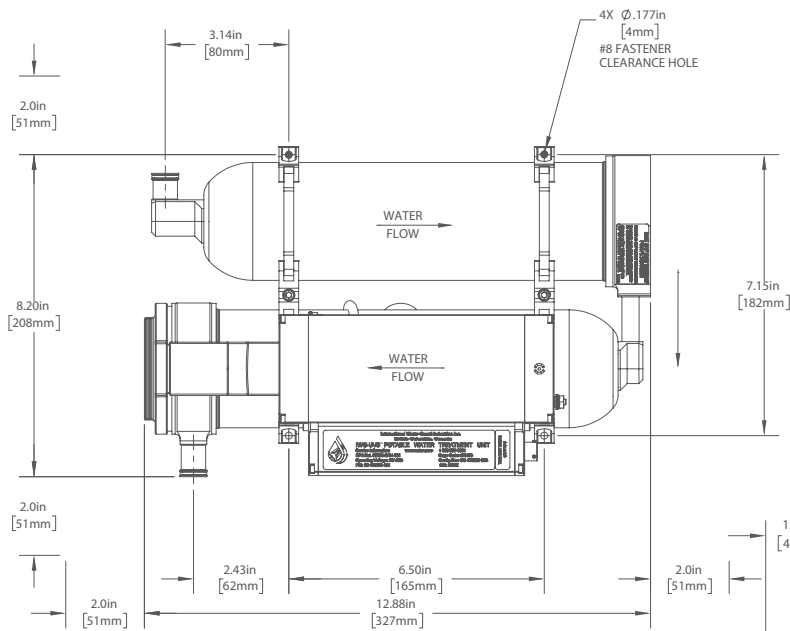
WATER TREATMENT UNIT



DESIGNED FOR GULFSTREAM G500/600

State-of-the-Art technology that allows safe drinking water to be served from cabin points of use.

Gulfstream G500



BENEFITS

- Treat all potable water onboard the aircraft
- Continuous real-time health status information via RS-485 output.
- Allow the use of water to make coffee, tea, soup, noodles, etc.
- Eco-Friendly, reduces plastic water bottles in the landfill.
- Reduces the cost of purchasing and stocking water bottles.
- Guards the health of your guests
- IWG has a 30-year history of quality aviation products with proven customer service world-wide.

INTEGRATION

- Located at the exit of water tank
- Quick release plumbing connection
- Treat 100% of water used in the cabin
- RS-485 input / output

PHYSICAL

Overall Dimensions:

High: 8.4" (213 mm)
Wide: 12.89" (327 mm)
Deep: 4.0" (102 mm)

Weight:

Weight: 8.9 lbs (4.0 kg)

Mecanical:

Plumbing Fittings: AS1656-08

Electrical:

Input Voltage: 28 VDC
Input Current: 2.5 A maximum
(2.0 A nominal)
Electric Interface: MS27508-8-98
(receptacle)
Visual Indicator: red/amber/green LED

Performance

Operating (max) pressure: 60 psig
Flow Rate (max): 2.0 USGPM
(7.56 LPM)
UV Dosage Level: NSF 55 Class A
(40 mj/cm²)
Pressure drop: 3.5 psid @ 2.0 usgpm
(with sediment filter installed)

DO-160G		
Description	Section	Category
Temperature & Altitude	4.0	A3
Temperature Variation	5.0	B
Humidity	6.0	A
Operational Shock and Crash Safety	7.0	B
Vibration	8.0	S, Curve C
Waterproofness	10.0	W
Fluid Susceptibility	11.0	N/A
Sand & Dust	12.0	N/A
Fungus Resistance	13.0	F*
Salt Fog	14.0	N/A
Magnetic Effect	15.0	A
Power Input	16.0	Z
Voltage Spike	17.0	A
Audio Frequency Conducted		
Susceptibility – Power Inputs	18.0	Z
Induced Signal Susceptibility	19.0	ZC
Radio Frequency Susceptibility (Conducted and Radiated)	20.0	T
Emission of Radio Frequency Energy (Conducted and Radiated)	21.0	M
Lightning Induced Transient Susceptibility	22.0	A3E3XX
Electrostatic Discharge	25.0	A
Flammability	26.0	C*

* by analysis

WHAT IS UV?

UV refers to ultraviolet light with wavelengths between 200 - 280 nanometers (nm). UV light can be used for treat the water, surfaces, food products and air.

HOW UV WORKS?

UVC radiation, in the range of 250 - 280 nm, is especially effective in inactivating micro-organisms, by destroying the genetic information in the DNA. The micro-organisms lose their reproductive capability.

WHY IT WORKS

Provides active treatment of the water using UV light at the point of exit from the water supply tank.

IWG-UV3 ultraviolet lamp treat the water in the aircraft.