



INTERNATIONAL  
Water-Guard

# The NPS-A4 Aircraft Potable Water Treatment Unit

# NPS-A4 SPECIFICATIONS

## MECHANICAL

**Overall Dimensions:** 12.5" high (318 mm) x 6.25" (159 mm) wide x 4" (102 mm) deep.  
**Net weight:** 5 lbs, 10 oz. ( 2.5 Kg)

## ELECTRICAL

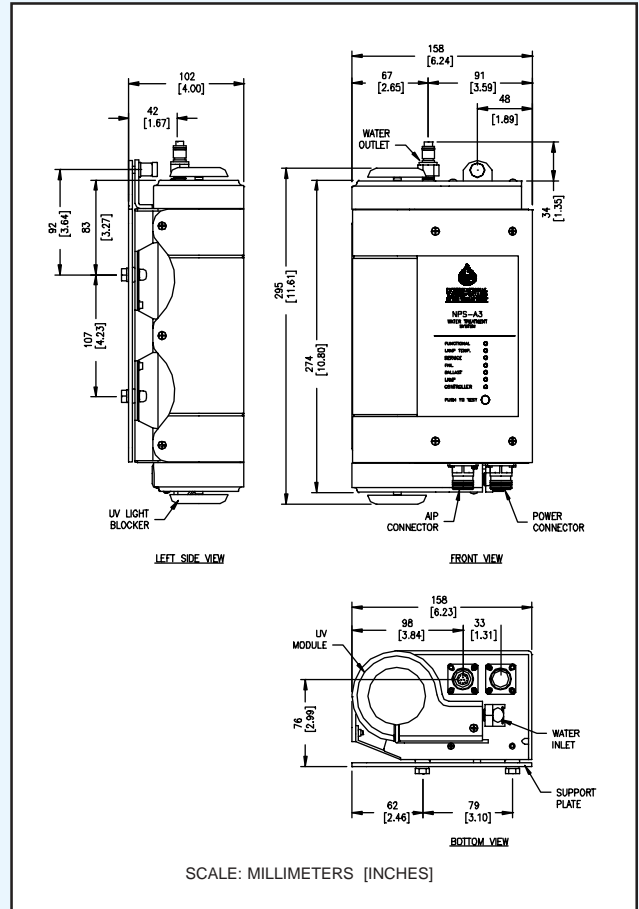
**Input Voltage:** 115 VAC 400 Hz or 28 VDC (nominal) chassis ground.  
**Voltage Reversal:** Fully protected to -600 V.  
**Transient Protection:** Fully protected to  $\pm 600$  V. transient of 10 msec. duration.  
**Input Current:** 1.0 A maximum at 28 VDC.  
 0.25 A maximum at 115 VDC.  
**Conducted EMI:** Meets applicable RTCA/DO-160 D requirements.  
**Electrical Interface:** 13-pin connector MS38999/0FB35PN.

## ENVIRONMENTAL

**Temperature Range:** Operating Ambient 0 to 40° C (32 to 104° F). Unit functions above 30°C (86°F), or below 10°C (50°F) with reduced disinfection capability. Storage: -40 to +70° C (-40 to 158°F). For cold soak conditions, unit must be drained and filter module removed.  
**Flammability:** Meets applicable FAA, FAR Part 25 and Transport Canada/JAA requirements.  
**Vibration:** Meets applicable RTCA /DO-160D and Transport Canada/JAA requirements.  
**Ventilation:** Cooling and venting is by natural convection.

## PRESSURE/FLOW

**Maximum pressure:** 60 PSIG (operating pressure).  
**Maximum flow rate:** 1 US GPM at NSF Class "A" disinfection levels.



## AUXILIARY INDICATOR PANEL (AIP) SPECIFICATIONS

**Mechanical:** Overall Dimensions: 3.3" (84 mm) high x 2.9" (74 mm) wide x 2.2" (56 mm) deep.  
**Mounting:** AIP unit flush mounts in bulkhead remote to the NPS-A4 unit.  
**Electrical:** Powered and driven from main unit. Remote panel power requirements are included the main unit specifications. Connector: 13-pin connector MS38999/0FB35SN.  
**Indicator Functions:** Four LED's provided for green (functional), yellow (lamp temperature), amber (replace lamp) and red (fail) status indicator lamps (cabin or cockpit location).  
**Test Read-Out:** Combination of three LED's providing test indication and warning lights advising of service and system fail. Red - ballast, red - lamp, and red - controller indicators provided, with system fail button.



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