

# FOAMPRO®

*Precision foam every time*

All FoamPro Designs have been subjected to and passed independent testing at the Nevada Automotive Test Center per SAE and Military Specifications for Off Highway Heavy Usage Equipment. The following is a listing of those tests:

1. **Initial Inspection and Calibration** Units were received and inspected for any damage and set-up to operate. Calibration of the units were completed per the operator's manual.
2. **Low Temperature Storage Test** Units were exposed to below zero temperatures for an extended period of time and then brought up to ambient temperature and run.
3. **Low Temperature Operation & Ice/Freezing Rain Test** Units were reduced in temperatures to 0°F and subjected to water spray until the ice was ½" /13mm thick. The units were then brought up to above freezing, inspected and operated.
4. **High Temperature Storage & Operation Test** Units were exposed to high temperatures for an extended period of time and then lowered and operated at 125°F/51.1°C
5. **Thermal Shock Test** Units were conditioned to extreme cold (-40°F) and transferred to a high temperature (120°F) in a very short period of time (5 minutes) and allowed to stabilize. The systems were thermally shocked for a total of three cycles
6. **Humidity Test** Units were conditioned at a normal summer temperature with less than normal winter humidity. Units were then exposed to seven 24-hour cycles of low and high humidity. The units were again tested.
7. **Accelerated Corrosion & Salt/Fog Test** Units were conditioned at an elevated temperature and then subjected to 2 days of salt fog. The units were then brought to room temperature and tested.

8. **Chemical Splash & Steam Cleaning/Pressure Washing Test**  
Units were exposed to and soaked for 2 hours in various chemicals: diesel fuel, gasoline, hot soap/detergent, and Class A & B foam concentrates. All surfaces were exposed to the chemicals and then all sides of the units were cleaned at 200°F/92.4°C with the pressure washer for a total of 375 cycles.
9. **Blowing Rain Test** Units were subjected to high winds (40 mph) and extremely high rainfall amounts (4.5"/11.25cm/hr) for a period of time. The units were again tested.
10. **Blowing Sand Test** Units were subjected to a silica flour material at high temperature for an extended period of time. The units were then tested.
11. **Bench Handling Test** Units were dropped from bench height and other rough handling. Again the units were tested after this test.
12. **RFI/EMI Test** Completed at 2 different locations with 2 different Independent testers. The units were tested in accordance with the Military Standards both at rest and in operation
13. **Shock and Vibration Test** Units were tested in an accelerated life durability environment. They were mounted on a vehicle and driven over rough terrain to evaluate shock and vibration durability. The test represented conditions encountered in a typical wildland environment through 5 years or 50,000 miles of vehicle operation.

The tests, performed in 1994, focused on the design of the complete FoamPro unit including the Foam Pump/Motor Base Unit, Digital Display Control Module, Flowmeter and Flowmeter tee's, FoamPro Multi-Flow Interface and all associated cabling.

Notation: After all this testing, the independent test company asked to have one of the tested units for their own fire protection apparatus.