

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 two 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 two 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.

(continued)

12. **RFI/EMI Test** Completed at two different locations with two 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 tees, FoamPro Multi-Flow Interface and all associated cabling.

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

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