



## SPECIFICATIONS – FOAM MANAGER™ WITH ADVANTUS® OR AQUIS™ World Leader in Fire Suppression Foam Systems

The Waterous Foam Manager™ consists of an ADVANTUS™ or AQUIS Foam System factory-mounted on a Waterous CM, CMU, CS or CSU fire pump.



### ADVANTUS® Foam System:

The ADVANTUS® Foam System uses advanced conductivity-based technology to monitor both supply water and foam solution in order to deliver optimal foam at every call. Regardless of the foam concentrate or the quality of the water pumped, the ADVANTUS automatically adjusts for both, providing you with the most accurate fire suppression capabilities in the industry.

#### Available ADVANTUS® Foam System configurations:

| Model      | Voltage      | Manifold Size | Rating |
|------------|--------------|---------------|--------|
| Advantus 3 | 12 or 24 VDC | 2-1/2 in.     | 500    |
| Advantus 6 |              | 3 in.         | 1000   |

The ADVANTUS® Foam System features a hydra-cell foam pump and stainless steel process manifold.

#### Foam Pump

The 12 or 24-volt electric motor driven, Hydra-Cell positive displacement foam concentrate pump is constructed of brass and stainless steel components which may come in contact with foam concentrate, making the pump resistant to chemical and corrosive attack. The pump is capable of handling suspended abrasives without sustaining any damage and can run dry for extended periods without sustaining damage. The ADVANTUS® 3 foam pump is rated at 3 GPM (11.3 l/min) at 150 psi (10 bar) and the ADVANTUS 6 foam pump is rated 6 GPM (22.6 l/min at 150 psi (10 bar) and with operating pressures up to 450 psi (32 bar). The system draws a maximum electrical load of 40 amps @ 12 VDC or 21 amps @ 24 VDC (ADVANTUS 3) or 80 amps @ 12 VDC or 40 amps @ 24 VDC (ADVANTUS 6).

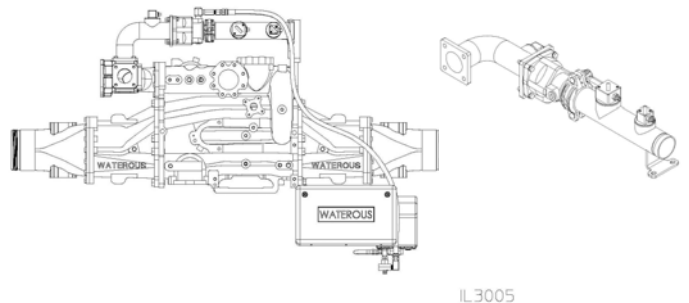
A pump motor electronic driver, located inside the controller housing receives signals from the microcontroller and powers the electric motor in a variable speed duty cycle to ensure that the correct amount of foam concentrate as set by the pump operator is injected into the water stream.

#### Process Manifold

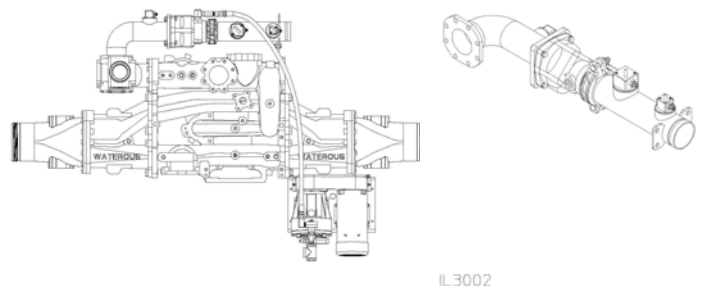
The foam system process manifold, constructed of stainless steel with Victaulic groove connections provided at one end of the manifold for connection to the apparatus plumbing. The process manifold includes an incoming water conductivity probe, paddlewheel flowmeter, foam injection check valve, Akron Brass waterway check valve and foam solution conductivity probe.

An Akron full-flow brass body check valve in the foam process manifold waterway prevents foam contamination of fire pump and water supply. A brass and stainless steel check valve provided in the foam concentrate line at the foam injection point to prevent water backflow into the foam supply reservoir(s). Stainless steel conductivity probes include gap spacers and a reverse charge feature to prevent build-up of deposits on the probe surfaces.

### ADVANTUS® 3 with 500 GPM Manifold



### ADVANTUS® 6 with 1000 GPM Manifold



### Industry-Leading Sales and Support

When you purchase Waterous equipment, not only do you get quality products, you get quality service. Our expert service technicians are the best in the business and they are always happy to answer any service questions you might have.

**Sales/Applications Assistance**  
Phone: 651-450-5234 (Press 3)  
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**Service Assistance**  
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### World Leader in Fire Suppression Foam Systems

The Waterous Foam Manager™ consists of an ADVANTUS® or AQUIS™ Foam System factory-mounted on a Waterous CM, CMU, CS or CSU fire pump.



#### AQUIS™ Foam System:

AQUIS™ 2.5 features a non-corroding brass body pump as well as sensors that measure water temperature and water flow to create the ideal water to concentrate ratio for superior foam.

The AQUIS™ Foam System features a Comet foam pump and stainless steel process manifold.

#### Foam Pump

The 12 or 24-volt, electric motor driven, positive displacement triplex plunger foam pump is equipped with an aluminum crankcase, ball bearings, forged brass pump body and manifold, solid ceramic plungers, stainless steel check valves and piston guides, Buna packing and preset thermal and pressure relief valves.

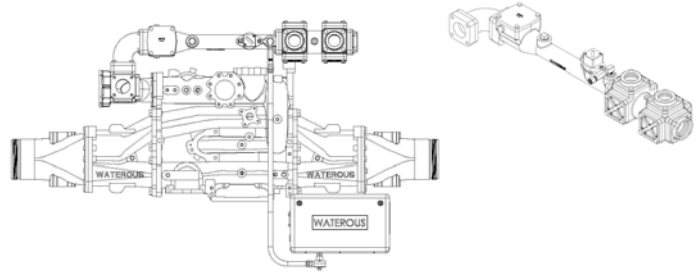
The foam pump is rated at 2.5 GPM @ 150 psi (9.46 l/min @ 10 bar) with operating pressures up to 450 psi (32 bar). Maximum electrical load of 40 amps @ 12 VDC and 21 amps @ 24 VDC.

A pump motor electronic driver, located inside the controller housing, receives signals from the microcontroller and powers the 1/2 hp (.4 kW) electric motor in a variable speed duty cycle to ensure that the correct amount of foam concentrate set by the pump operator is injected into the water stream.

#### Process Manifold

The foam system process manifold, constructed of stainless steel with Victaulic groove connections provided at one end of the manifold for connection to the apparatus plumbing. The process manifold includes an incoming water conductivity probe, paddlewheel flowmeter, foam injection check valve, Akron Brass waterway check valve and foam solution conductivity probe. An Akron full-flow brass body check valve in the foam process manifold waterway prevents foam contamination of fire pump and water supply. A brass and stainless steel check valve provided in the foam concentrate line at the foam injection point to prevent water backflow into the foam supply reservoir(s). Stainless steel conductivity probes include gap spacers and a reverse charge feature to prevent build-up of deposits on the probe surfaces.

#### AQUIS™ 2.5 with 500 GPM Manifold



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