



**Big Flow**  
High Capacity Mobile Firefighting

# Big Flow

## High Capacity Mobile Firefighting

The National Foam Big Flow System is a mobile, pumping system that is capable of feeding high capacity water (3,000-6,000 gpm) over extremely long distances. The system comprises a number of high capacity water/foam pumping options, large diameter hose and hose deployment devices which provide versatility and superior range to attack hazards from a safe and effective distance.



### Pumping system options

#### Neptune satellite and boost

Integrated, transportable pumping module capable of pumping water at 3,000-6,000 gpm at 150 psi. Neptune integrates two floating satellite pumps that supply water to a main pump from distances up to 150 feet. The satellite pumps provide up to 50 feet of vertical lift inclusive of 150 feet total distance allowing greater access to more water sources compared to standard suction lift pumps which are typically limited to 20 feet horizontal and 6 feet vertical.



#### Triton satellite

The Triton pumping system eliminates the need to pump from draft and dramatically increases the area in which primary pumps can be deployed and operated due to its size and capabilities. Offered in flow rates of 3,000-6,000 gpm, the Triton can deliver water to any pump from distances up to 150 feet away and 50 feet below inclusive. The Triton unit expands the capability for both municipal and industrial fire fighting by making available water sources previously believed to be unreachable.



#### Dominator boost

The Dominator trailer mounted pumping system is a more conventional drafting pump system consisting of a large diesel engine, a large split case pump and a vacuum system on the manifold that allows the pump to pump from draft offering mobile high flow response, flexible and fast connectivity, high performance pumping, simple operation and durability. Flow range includes 1500 GPM, 3000 GPM, 5000 GPM and 6000 GPM.



## Large diameter hose system

### Super Aquaduct

A flexible layflat pipeline for all emergency water delivery operations. Super Aquaduct is lightweight and compact for economical storage and ease of transport and is designed for long life and maintenance-free service in even the harshest environments. Tough and durable with exceptional resistance to abrasion and cutting for use on a wide variety of ground conditions. No corrosion or scaling. Resistant to heat, fuels, chemicals, UV, ozone, weathering, hydrolysis, and microbiological attack. Super Aquaduct has low pressure loss for efficient pumping. Swells up to 10% above uncharged diameter at maximum operating pressure enabling more water to be pumped.



### Hose deployment and retrieval systems

A number of deployment and retrieval systems are available including flaking boxes, hose reels and side reeler trailers. Hose reel trailers feature remote controlled hydraulic variable speed drive systems allowing for efficient and safe deployment. Carrying capacities up to 300 meters of 12 inch hose per reel. Flaking boxes are supplied complete with stack and lifting features providing both secure, long-term storage and fast deployment.



## Mobile foam proportioning

A number of options are available to add foam capability to the Big Flow system. A Foam Injection Skid or Trailer utilizes a diesel driven positive displacement pump suitable for injecting foam concentrate at any rate for flows up to or exceeding 10,000 gpm. The foam injection units are suited to low pressure suction inlet injection, as well as high pressure main-hose-line injection. Injection rate or proportioning can be manually adjusted utilizing a Variable Proportioning Valve (with % Settings) or electronically controlled. Alternative proportioning systems are also available that utilize vacuum style eductors. These simple systems are typically small enough to be transported in the back of a pick-up truck while providing proportioning to pumps up to 10,000 gpm.



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### Discharge devices

#### Iron Man

Trailer-mounted foam and water delivery unit capable of various flows with interchangeable tips up to 12,000 gpm with ranges in excess of 400 feet depending on conditions. Nozzle is capable of changing its stream pattern from straight stream to semi-fog via an integral hydraulic patterned control system. Unit is suitable for both Synthetic and Protein based foams. Stability is designed into trailer using ballast tanks and 4-point leveling system. Monitor movement is 340° rotational, +15° to +90° elevation.



#### Terminator II

Terminator II Foam/Water Delivery Device is equipped with a self-educating gladiator nozzle. It features straight stream to fog pattern adjustability, turn and click flow adjustment and a self-leveling stability system. It delivers outstanding foam range and foam quality. Flow ranges available from 1,500 to 3,000 gpm. This unit's compact and lightweight design offers the capability of manual deployment.



#### Tote Trailer

A range of foam tote trailer packages are available to provide economical, effective solutions to customers to address flammable liquid hazards anywhere a pressurized water source is available. Single or dual tote units supply foam through a self-educating onboard monitor system. In addition, dry chemical systems and handline foam/water systems may be added to enhance firefighting capabilities.



### Further information

Full supporting technical data sheets and information on each of the component parts of Big Flow are available for download from the National Foam web site:  
[www.nationalfoam.com](http://www.nationalfoam.com)

