



Big Flow Systems

Major innovations in fire fighting technology

Iron Man, Dominator, Super Aquaduct

A combined high capacity foam delivery solution providing power and performance from National Foam and Angus Fire.



Dominator



Dominator

The National Foam Dominator 5000 GPM skid mounted diesel pump trailer answers the need for a large, practical, and efficient fire water pump. The unit has a nominal performance rating of 5000 GPM at 150 PSI when operating with a 6 ft. suction lift. The pump and engine are mounted on a box frame base, which also serves as a 300 gallon fuel tank. The stainless steel suction manifold is well outfitted with (6) 6" NH connections. The stainless steel discharge manifold is extremely capable for water distribution with (5) 5" Storz connections, (1) 10" Vic connection, and (1) 2 ½" NH valved discharge. The unit is equipped with an operator's panel for engine controls and manifold pressure gauges. The pump's electrical system is 12 VDC with two heavy-duty batteries. The priming system consists of two 12 VDC electric primers. The pump skid is mounted on a custom designed 14,000 GVW trailer from which it can be utilized or easily removed for non-mobile or permanent applications. The standard unit is complimented with an overhead frame for lifting and hard suction hose troughs.



Features

- High capacity 5000 GPM @ 150 PSI from draft
- Capacities much greater than 5000 GPM from adequate pressurized water sources
- Suitable to establish and/or supplement water supply needs
- May be used with both fresh and seawater

Options

- Any paint color
- Custom suction and discharge connections and configurations
- Suction hoses and accessories
- Storage compartments
- Other GPM units available



Iron Man



Iron Man

The National Foam Iron Man 8000 GPM high capacity mobile foam delivery device offers outstanding performance. Ironman proves its versatility and superiority with excellent foam stream quality, ranges in excess of 450 ft., 340° of free rotation and a +15° to 90° range of elevation. Iron Man utilizes a specially engineered non self-educing nozzle that offers a foam expansion ratio of 6.6:1 creating an efficient foam stream better suited for penetrating thermal updrafts encountered during large scale fires. The nozzle delivers 8000 GPM at a nominal pressure of 115 PSI. The stainless steel monitor, fed by a single 12" Victaulic or Storz hose connection, is mounted on a custom built trailer which when filled with water, acts as the unit stabilizer during operation. Iron Man is supplied with a 'pony tail' 25 ft. length of 12" Super Aquaduct hose as standard with a 12" inlet manifold that may be configured to (6) 6" or 5" Storz connections, offering immense flexibility in water supply.



Features

- Outstanding foam stream range.
- Superior quality foam stream with minimal fallout.
- Immense monitor movement flexibility.
- Hydraulically operated stream pattern changer from straight stream to semi-fog.
- Compatible with all major types of foam concentrate.
- Other GPM units available.



Foam Proportioning

The simplest method of introducing foam in to the Iron Man water flow is through the use of jet pumps. A configuration of (2) 3000 GPM and (1) 2000 GPM National Foam jet pumps, for 3% or 6% foam, proportioning provides an effective solution at a total flow of 8000 GPM. Key benefits of using jet pumps are improved logistics and greater flexibility offered in positioning your foam station.



Super Aquaduct



Super Aquaduct Deployment, Retrieval and Storage Equipment

This equipment, from Angus Fire, is custom engineered and allows the operator the capability to deploy, retrieve and store Super Aquaduct. A variety of trailers, reels, and flaking boxes can be designed for any configuration and number of “flexible pipeline” assemblies. Skid mounted, truck mounted as well as towed equipment configurations are available.



Super Aquaduct Couplings, Hardware and Manifolding

A complete line of end connectors and manifolds are available. These components allow operators to connect multiple sections of Super Aquaduct as well as connect with fire hydrants, fire water systems, fire fighting and water transfer equipment.



Super Aquaduct Lay Flat Large Diameter Hose

Super Aquaduct is a specialized polyurethane hose, which is extruded through the weave cover and lining, and is reinforced with circular woven high tenacity polyester. Super Aquaduct is the only product of its kind which is NSF 61 certified for potable water. This hose was designed for a variety of above ground high flow potable or fire water contingencies. Available in blue and orange.



Angus Super Aquaduct								
Size		Max Working Pressure**		Burst Pressure		Weight*		
inch	mm	psi	kPa	psi	kPa	lbs.	kg	
6	152	300	2100	600	4200	1.09	0.5	
8	203	220	1540	500	3500	1.9	0.86	
10	254	150	1050	400	2800	2.2	1	
12	305	150	1050	300	2100	3.1	1.41	

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