

## **HYDRO-FIRE® MKII SYSTEM**

Elastec/American Marine is a world leader in the design and manufacture of fire boom. In the summer of 2010 we supported the effort in the Gulf of Mexico to minimize the impact from the Deepwater Horizon oil spill - our Hydro-Fire® Boom systems were extensively used in multiple controlled burns. This specialized boom is a patented water cooled boom, multiple systems were deployed with great success, reducing the impact of oil on shorelines.



Controlled burning is a valuable response tool that can eliminate large volumes of oil from the marine environment. During the Deepwater Horizon response 219,000 to 309,000 barrels of oil are estimated to have been burnt. By the time the well was capped over 400 burns were conducted - with some lasting up to 12 hours in duration. On the 18th of June alone an estimated 50,000 to 70,000 barrels of oil was burned. Of the hundreds of burns conducted, our Hydro-Fire® Boom proved to be the most successful.

Hydro-Fire® Boom has undergone rigorous burn trials by ourselves and other response organizations such as OHMSETT, SUPSALV and US Coast Guard. Hydro-Fire® Boom is an effective barrier to prevent the spread of oil fires on water.

The burns include a test burn off the coast of Spitsbergen, Norway (1988), spillage from Exxon Valdez (1989), involvement with experimental burns off Newfoundland, Canada (1993), United Kingdom Southampton test burn (1996) and most recently, the Deepwater Horizon spill in the Gulf of Mexico (2010).

The Hydro-Fire® Boom System comprises of inflatable boom that is covered with a special fire resistant material, this material is continually soaked with water internally when in operation.

**Features:**

- Inflatable design allows storage and shipping on a reel
- Reusable system
- The reel assists deployment and recovery
- Supplied as a complete system with water pumps, hoses, tow lines, hydraulic power unit
- Rapid deployment with minimal storage volume

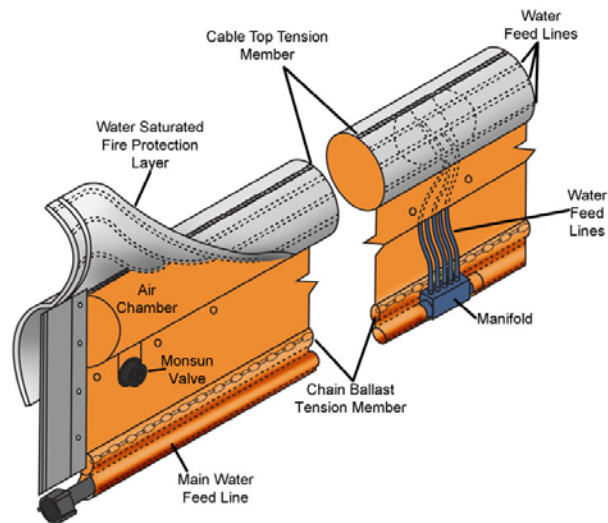


**System components:**

Five Sections of 100ft / 30m fire boom  
15"x19"  
/ 380 x 480 mm

One Boom Reel with brake and integral air inflation system. Fabric cover.

Elastec/American Marine boom reels are built for safe and controlled deployment and recovery of boom. The boom reel is hydraulically controlled to assist in the deployment and retrieval of the boom.



- Steel base - shot blasted, primed and painted
- Fork lift pockets and lifting points
- Securing: Dedicated tie down points
- Spool: Reinforced aluminum
- Closed sides for operator protection
- Drive: Heavy-duty direct drive hydraulic motor and gearbox, all hydraulic fittings are stainless steel
- Speed Control: Forward and reverse
- Inflator: Mounted on reel base





Two E600 high flow water pumps with flow meters, pressure gauges, water filter and suction strainer manifolds. Fabric covers.

Engine: John Deere  
Horse Power: 72 @ 2200 rpm  
Number of Cylinders: 4  
Aspiration: Turbocharged  
Fuel: Diesel  
Battery: 12 Volt System  
Rating: 2,269 rpm  
Head(max): 328ft



One D9 Boom reel power pack - a portable diesel driven unit that supplies the hydraulic power to run a boom reel fitted with controls. Mounted in a cage frame. Fabric cover.

Two Towing Packages - each package includes;  
400ft / 120m of 1" Tow Line  
1 x 25ft / 7.6m Fire hose assemblies  
3 x 100ft / 30m Fire hose assemblies  
4 x Hose float assemblies  
1 x Tow bridle assembly  
1 x CLC-FHA Change-over

### Equipment Dimensions:

Reel and Boom: 122 x 89 x 103" / 3.09 x 2.26 x 2.61m      7,000lbs / 3,181kg  
Power unit: 28 x 25 x 29" / 0.71 x 0.63 x 0.73m      300lbs / 136kg  
Water Feed Pumps: 86 x 54 x 74" / 2.18 x 1.37 x 1.88m      2650 lbs / 1,202 kg

**System Options:** Lifting sling, storage container, trailer, spares kit, hand held igniters  
**Reel Options:** ISO corners, double entry fork pockets



The entire system can fit inside a 20ft high cube shipping container, which may be used for transportation or storage. We can customize these containers with side opening doors on request to allow the boom to be deployed directly from the container.

Another option is a custom built container that houses the boom reel only.

We can also supply trailer mounted boom reels.



