



LAST FIRE SOLUTIONS

ABOUT FHC

FHC offers a full spectrum of end-to-end solutions for hazard control. Our expertise includes fire protection, fire safety, and fire security. We are a leading provider of fire protection services as well as safety equipment and systems around the globe.

Over the past several years, FHC has been a trailblazer in the LAST Fire Solutions industry. Through harnessing innovation and technology, we have enhanced our capability and capacity to provide the best solutions to our customers. We are constantly working to provide more efficient and high quality products to our clients.

CHIEF FIRE STRATEGIC PARTNERSHIP

Through a strategic partnership with American-based Chief Fire, we are ready to meet global challenges and solve unique hazards. FHC's three manufacturing and engineering plants combined with Chief Fire's experienced engineers are prepared to attack some of the world's toughest firefighting and structural problems.

CHIEF joined FHC in 2015 designing and manufacturing a variety of mobile industrial and municipal fire fighting apparatus, specializing in custom high-volume pumping systems, front-line mobile monitors, tactical support systems, and specialty control systems. CHIEF innovated the world's first and only composite floating source pump (FSP) for remote water applications.

Together, our goal is to provide exceptional quality, tailored services, and continual support. We exist to protect the lives of people and the community in which we live and work. This is why we always strive for excellence in all that we do.

PRODUCTS AND SOLUTIONS

- ▶ Pump Systems
 - ▶ Boost Pumps
 - ▶ Floating Source Pumps
 - ▶ Hybrid Pumps
- ▶ Hose Retrieval Equipment
 - ▶ Hose Trailers
 - ▶ Hose Flaking Trailers
 - ▶ Hose Containers
- ▶ Ro-Ro Equipment Containers
- ▶ Foam
 - ▶ Foam Concentrate
 - ▶ Foam Proportioning
 - ▶ Foam Trailers
- ▶ Monitor Systems
 - ▶ Mobile Monitors
 - ▶ Elevated Monitors

FOR MORE INFORMATION:

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PUMP SYSTEMS



BOOST PUMP SYSTEM

- ▶ High-volume & high pressure
- ▶ Mounted on a trailer or skid
- ▶ Operates as a boost pump or relay pump
- ▶ Up to 11000 GPM @ 150 psi (41640 LPM @ 1034 kPa)
- ▶ Control panel allows for control of RPM or discharge pressure
- ▶ 8 hour fuel capacity at full power

FLOATING SOURCE PUMP SYSTEM

- ▶ Mobile hydraulically driven source pumping system
- ▶ Ultra-lightweight
- ▶ Source pumps use world class composite technology
- ▶ Mounted on a trailer, skid, Ro-Ro skid, or integrated into your equipment
- ▶ High volume water transfer as well as de-flooding capabilities
- ▶ Up to 5000 GPM (18930 LPM) per pump (up to 3 per unit)



HYBRID PUMP SYSTEM

- ▶ Pinnacle of high-volume high pressure
- ▶ Combines the Boost Pump and Floating Source Pump
- ▶ Seamlessly integrates high volume and remote sourcing with high boost pressures
- ▶ Up to 12000 GPM @ 150 psi (45425 LPM @ 1034 kPa)
- ▶ Single compact unit improves set-up time and site logistics with fewer systems to oversee



HOSE RETRIEVAL & EQUIPMENT



HOSE REEL & FLAKING TRAILERS

- ▶ Standard and customer-specific hose reel and hose flaking trailers
- ▶ 2-axle trailer w/ heavy duty steel structure
- ▶ Fifth wheel gooseneck connection
- ▶ Custom-built aluminum trailer frame
- ▶ Electric or hydraulically operated hose loading system
- ▶ Vertically partitioned for separate hose storage
- ▶ Up to 1,500 M (5000') of 152 mm (6") large diameter hose
- ▶ Hypalon roof hose bed cover



COUPLINGS

- ▶ Storz STZ Series heavy duty aluminum coupling from U.S. Couplings with high strength forged heads and forged aluminum locks to exceed NFPA 1963 lock shear test of 300 lbs (136 kg)
- ▶ Available sizes in 4", 5", 6", 8", 10", and 12"



FIRE FIGHTING & LARGE DIAMETER HOSES

Hilcoflex PU

- ▶ Lightweight and flexible compared to mandrel-wound industrial hoses
- ▶ Outstanding abrasion resistance
- ▶ 100 m or 200 m (for sizes 8" and above) standard length

Progress Supply

- ▶ Very high continuous working pressure, high pressure reserves
- ▶ Low pressure loss, minimum elongation
- ▶ 15, 20 and 30 m, other lengths available on request



EQUIPMENT UTILITY CONTAINERS

- ▶ All welded steel fabrication
- ▶ Roll-off system
- ▶ 2497 mm Wide x 6610 mm Long x 2244 mm High
- ▶ Diesel generators (12 kW to 100 kW)
- ▶ Fuel tank for continuous operations
- ▶ Circuit breaker box
- ▶ Ramps and winch loading systems
- ▶ Roof access ladder
- ▶ Vertical or Horizontal Floodlight Towers





FOAM CONCENTRATE & FOAM PROPORTIONING

Foam Concentrates:

- ▶ 1x3, 3x3, and 3x6 % AR-AFFF
- ▶ 1 and 3 % AFFF



FOAM UTILITY TRAILERS

- ▶ Quick-deploying foam utility trailers
- ▶ Capable of handling small ground fire while also providing foam support to larger equip.
- ▶ Flow proportioning rates up to 6000 GPM at 3%
- ▶ Available in single, dual, triple, quad, and custom quantity tote configurations

FOAM TOTE TRAILER

- ▶ 22,000 L in steel tubing framework
- ▶ Lift-truck ready
- ▶ Removable steel side rack enclosures
- ▶ Quick disconnect "Cam Lok" 50mm
- ▶ Piping: 100 mm #316 L Stainless Steel

MONITORS

MOBILE MONITOR SYSTEMS

- ▶ Fast response mobile monitor trailers
- ▶ Various chassis available: 5000, 8000, and 12000 GPM
- ▶ Stable platform allows 360° coverage
- ▶ Available with water-only or self-educating nozzles
- ▶ Available in manual, electric, or hydraulic control

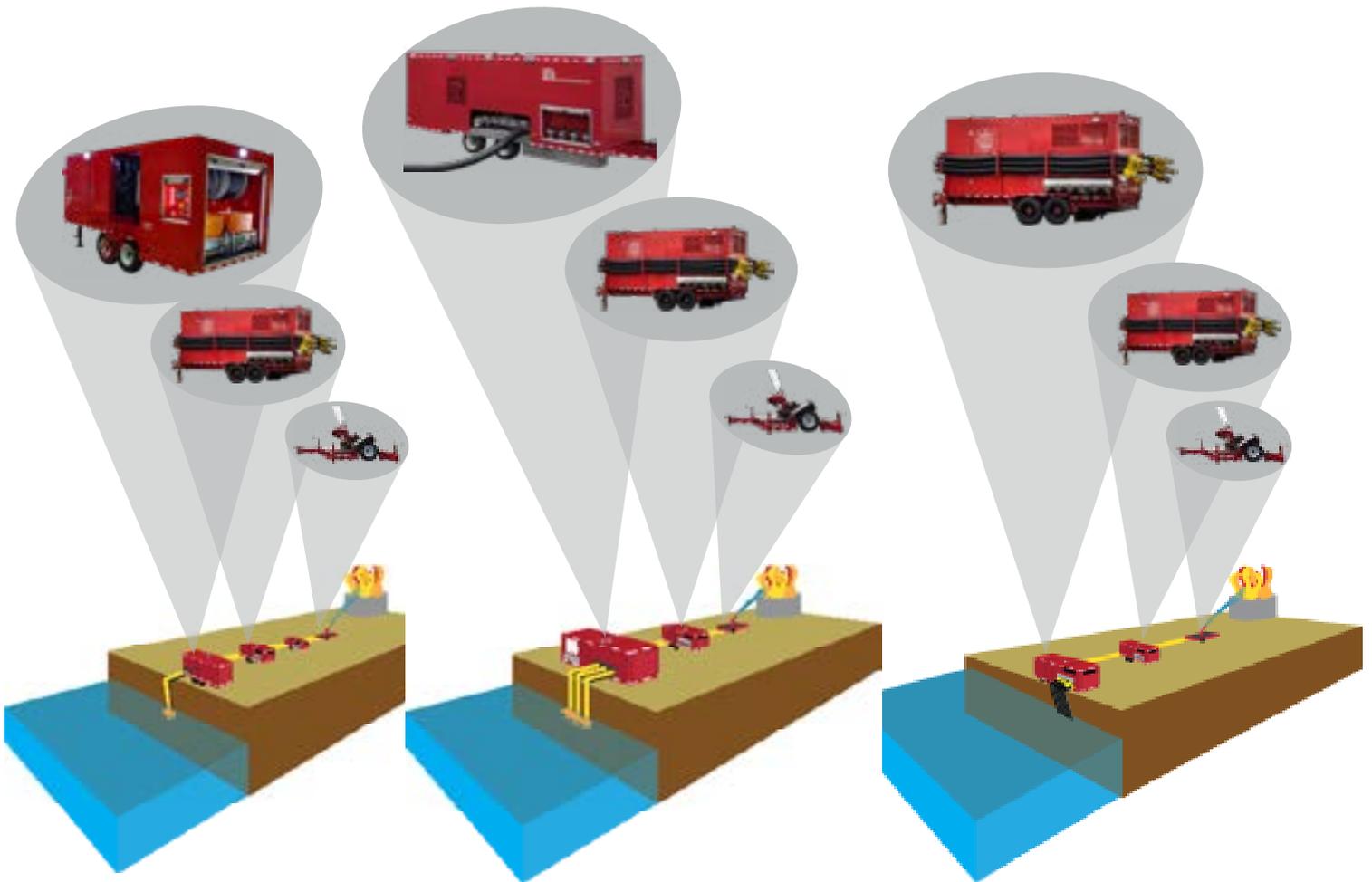


ELEVATED MONITORS

- ▶ Water Flows Up to 2000 GPM (7570 LPM)
- ▶ Platform or ground operation
- ▶ Fixed GPM or variable GPM settings
- ▶ Self-educating type nozzles
- ▶ Class 1 Division 2 explosion proof applications
- ▶ Electronic drive allows for exceptional integration with electronic controls
- ▶ Modular, self-contained pump units with corrosion resistant actuators



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SITUATION 1

- ▶ A Floating Source Pump transfers water directly from a remote water source to a Boost Pump, which then adds additional pressure and relays the water to an additional Boost Pump. Finally, the high-pressure water is pumped directly to a mobile monitor system to fight the fire.

SITUATION 2

- ▶ A Hybrid Pump unit transfers water directly from a remote water source into its integrated Boost Pump, which adds additional pressure. This high-pressure water is then relayed to an additional Boost Pump, which adds additional pressure and transfers the water to a mobile monitor system to fight the fire.

SITUATION 3

- ▶ A Boost Pump drafts/siphons water directly from an open water source. The water pressure is boosted and transferred downstream to an additional Boost Pump, which relays the water to a mobile monitor system.



ENGINEERING CAPABILITIES

FHC is a premier provider of International Standard Compliant Fire Protection Solutions. With vast expertise providing total integrated and packaged turnkey fire engineering solutions including high-volume pumping, foam proportioning, hose deployment and mobile monitor systems, we are prepared to solve the world's most difficult LAST fire hazard challenges.

FHC's engineering and manufacturing team along with its valued global partners are quickly able to address complex fire protection needs, including custom high-volume solutions, fast response field service, and immediate technical guidance. Fire fighting professionals can rely on our team for the most comprehensive fire equipment and service in the industry. Our capabilities include:

- ▶ High-volume pumping systems
- ▶ High-volume monitor systems
- ▶ Foam proportioning systems
- ▶ Large diameter hose deployment systems and logistics
- ▶ Large fire fighting equipment deployment, training, and application

CONSULTATION SERVICES

FHC also provides a wide array of Consultancy Services, including:

- ▶ Fire, Life Safety, and Accessibility Code Consulting
- ▶ Security Design and Consulting
- ▶ Fire, Smoke, and Egress Modeling
- ▶ Quantitative Risk Assessment and Hazard Analysis
- ▶ Forensic Engineering and Litigation Support
- ▶ Construction Administration and Commissioning
- Emergency Planning
- Combustible Dust Hazards
- Loss Control Surveys
- Condition Assessments
- Mass Notification Systems (MNS)
- Emergency Planning

PROUD PARTNERS

