



Clean Agent Fire Suppression Systems

3M™ Novec™ 1230 Fire Protection Fluid or HFC-227ea

FIREBOY automatic fire suppression system benefits:

- ▶ Often detects and suppresses a fire before you know
- ▶ Automatic or manual operation



3M™ NOVEC™ 1230 FIRE PROTECTION FLUID

- ▶ Class B fire coverage from 600 - 4,000 ft.³ for engine rooms, machinery spaces, and other enclosed spaces for Class B fires
- ▶ Factory Mutual / USCG / CE / RINA / BV approved
- ▶ Low Global Warming Potential (GWP <1)
- ▶ Low toxicity in properly designed system
- ▶ No damage to sensitive equipment
- ▶ Not targeted for emission reduction or phase-out
- ▶ 3M™ Blue Sky™ warranty - 20 year protection against environmental regulation



HFC-227ea CLEAN AGENT

- ▶ Class B fire coverage from 600 - 3,000 ft.³ for engine rooms, machinery spaces, and other enclosed spaces for Class B fires
- ▶ Factory Mutual / USCG / CE / RINA / BV approved
- ▶ Low toxicity in properly designed system
- ▶ No damage to sensitive equipment



UNITED SAFETY
& SURVIVABILITY CORPORATION™

FIREBOY - XINTEX

SAFETY



FIREBOY-XINTEX.COM

Grand Rapids, Michigan / Poole, England



SAFETY IS OUR BUSINESS!

GA PRE-ENGINEERED SERIES ADVANTAGES

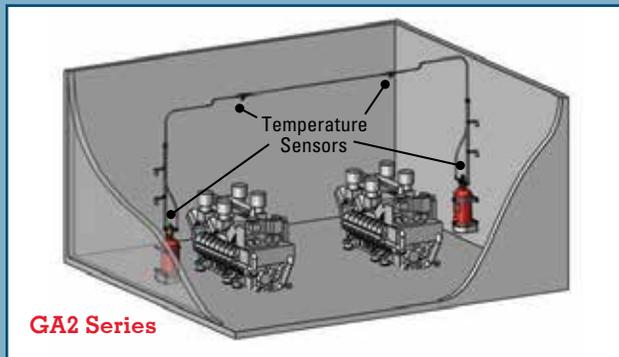
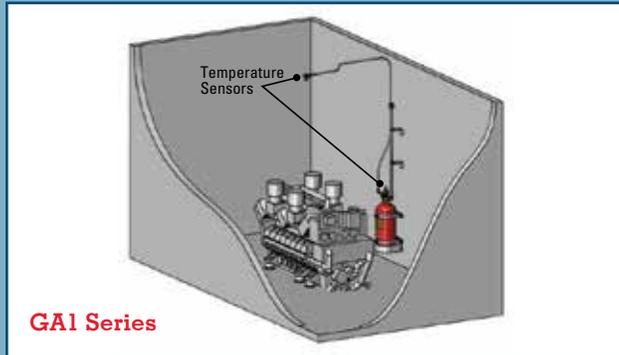
- ▶ Simplified installation compared to engineered systems
- ▶ System can be installed inside or outside the protected space
- ▶ Cylinder can be mounted close to the floor (2 in. minimum) with piped nozzle within 24 in. of ceiling
- ▶ Near-simultaneous release of both cylinders
- ▶ Less costly than engineered systems
- ▶ System approvals available electronically and eliminates
 - ▶ All system components backed by the Fireboy-Xintex 3 year limited warranty against leaks and defects in materials and workmanship
 - ▶ Heavy-duty bracket required for USCG approval



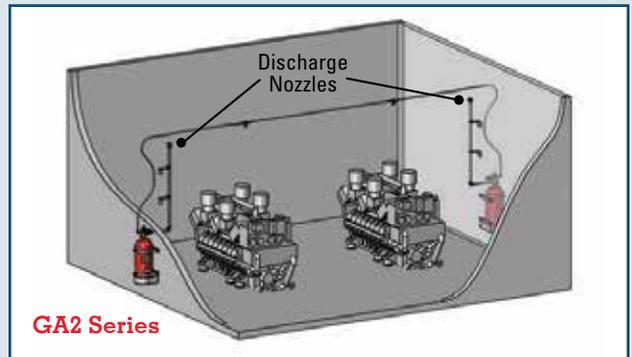
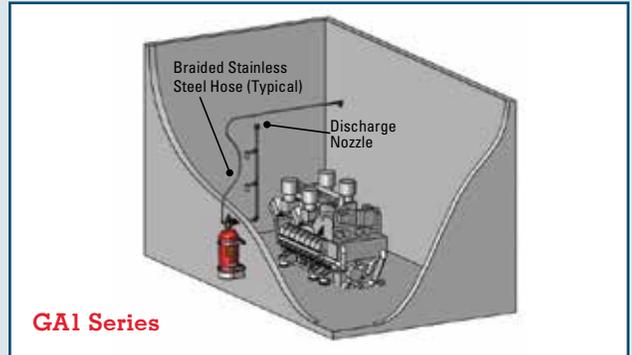
- ▶ Patented safety lockout design prevents costly accidental discharge and injury during installation or service

GA1 & GA2 APPROVED INSTALLATIONS

CYLINDERS LOCATED INSIDE OF THE PROTECTED SPACE



CYLINDERS LOCATED OUTSIDE OF THE PROTECTED SPACE



APPROVED INSTALLATIONS FOR USCG INSPECTED VESSELS UP TO 2,000 ft³ ONLY



GA SERIES SYSTEM COMPONENTS



GA LINK FEATURES

- ▶ Quick disconnect with double check valve for ease of installation (fig. A)
- ▶ Pressure gauge located at each sensor block
- ▶ Connections with up to 3 hoses and 2 sensors
- ▶ Stainless steel braided hose (40 ft. maximum length)
- ▶ GA1 - 1 or 2 sensors on ceiling
- ▶ GA2 - 2 sensors on ceiling



HEAVY-DUTY EXTINGUISHER BRACKET

- ▶ Shelf design for ease of installation and maintenance
- ▶ Required for USCG approval
- ▶ 2 or 3 clamps depending on cylinder size



WARNING: Diesel engines also require the installation of a Fireboy Engine Shutdown System.



PIPE KITS INCLUDE:

- ▶ Pipe mounting brackets & nozzles
- ▶ Optional pipe kit available with included piping for installation
- ▶ Available in black, galvanized or stainless steel



MANUAL DISCHARGE PULL CABLE WITH OPTIONAL PULL CABLE ANGLE ADAPTER



MANUAL PULL STATIONS FOR INSPECTED VESSELS SURFACE OR FLUSH MOUNT AVAILABLE



ESC SERIES ENGINE SHUTDOWN WITH HELM DISPLAY



ENGINE SHUTDOWN HELM DISPLAY



HIGH-TEMP DISCHARGE PULL CABLE



HORN STROBE FOR INSPECTED VESSELS

ON BOARD, ON GUARD!



THE FIREBOY ADVANTAGE TOTAL FLOODING, CLEAN AGENT FIRE EXTINGUISHER SYSTEMS

U.S. Coast Guard studies show that approximately 90% of marine fires start in the engine compartment, and that only one in ten of those fires is successfully extinguished with dry-chemical portable fire extinguishers. Dry-chemical fire extinguishers also leave behind a powder that can damage the engine and other electronic equipment.

Since the introduction of Halon systems in the early 1970's, Fireboy has designed safe and effective clean agent engine room fire

protection with no water or powdery residue. All systems are heat-activated to automatically discharge the clean agent with no operator required. With a Fireboy system, the fire extinguishing agent is released much faster than any crew response, resulting in a faster fire-out time and less damage.

CONSTANT PROTECTION, NO HARMFUL RESIDUE

- ▶ Automatic discharge at 175° F (79° C), or optional 155° F (68° C), for constant engine room protection
- ▶ Many marine insurance providers offer discounts to boaters who install a fixed extinguisher system (contact your insurer for details)
- ▶ Total discharge of agent in less than 10 seconds
- ▶ 3M™ Novec™ 1230 fire protection fluid and HFC-227ea leave no harmful residue
- ▶ 3-year limited warranty
- ▶ All steel refillable cylinders (except systems discharged in a fire)
- ▶ Helm display LED and simple color-coded pressure gauge on cylinder "charged/discharged" status indicator
- ▶ Fireboy-Xintex offers products with coverage from 25 ft.³ to 17,500 ft.³ in order to provide maximum protection
- ▶ Integrated shelf bracket mounting system (required for USCG approval) (see photo on page 3)
- ▶ Patented Safety lockout design to minimize accidental discharge
- ▶ Premium quality pressure gauge ensures reliable performance
- ▶ Factory Mutual / USCG / CE / RINA / BV approved
- ▶ 3M™ Novec™ 1230 fire protection fluid and HFC-227ea approved for marine use worldwide (EPA SNAP European)
- ▶ Approved Class B fire in engine rooms, machinery spaces, and other similar industrial applications

Download the 3M™ Novec™ and HFC-227ea worksheets:
<http://www.fireboy-xintex.com/ga-fire-extinguisher>



FIREBOY - XINTEX



Fireboy-Xintex
is ISO 9001
Certified QMS

Approvals & Certifications

All Fireboy GA models are approved by Factory Mutual, U.S.C.G., RINA (ISO 9094 (2015)) and are CE certified (BV)

FIREBOY-XINTEX.COM

Fireboy-Xintex LLC 616.735.9380
O-379 Lake Michigan Drive NW
Grand Rapids, MI 49534

Fireboy-Xintex UK Operations Limited +44 (0) 845 389 9462
10 Holton Road / Holton Heath Trading Park, Poole
Dorset BH166LT / United Kingdom