



Maryland Fire Equipment Corporation

# Burning Issues™

Winter 2002

## MSA Thermal Imaging "See" Heat, Save Lives

The most significant factor hindering the effectiveness of today's firefighters is their inability to see in smoke-filled buildings. Thermal imaging cameras (TICs) remove this obstacle, allowing firefighters to easily see through smoke, safeguard the lives of the firefighting team, locate people who may be trapped in the building, and quickly lead them to safety.

Maryland Fire is pleased to offer our customers the entire line of MSA TICs, which combines the most advanced thermal imaging technology with MSA's expertise in high heat, impact resistant thermoplastics. The combination of state-of-the-art technology and tough, durable construction has made MSA a lifesaving resource for firefighting teams throughout the country. Consider the many advantages of MSA's most advanced thermal imaging cameras!

### The Evolution® 4000 TIC

Designed by firefighters and developed by MSA, the Evolution 4000 is the industry's original big-screen, high-definition TIC. With a breakthrough design that combines perfect balance, grip, orientation, and hand-off capability in a rugged, lightweight, fully sealed, high-temperature housing, the Evolution 4000 TIC is a firefighting tool that your team will rely on time and time again.

The Evolution 4000 features the latest advances in thermal imaging technology to provide high resolution, quality images for clear, crisp definition of objects in the scene; video enhancement software and firmware provide additional data (such as color or other indication) for notable events.



### The Evolution® 5000 TIC

MSA has, once again, set a new standard in thermal imaging with the Evolution 5000, which provides big-time performance in a small-format TIC. Designed especially for the fire-fighting industry, the Evolution 5000 combines the functionality and durability required of fire fighters with features and performance not found on other manufacturers' TICs.

The Evolution 5000 TIC features a 160 x 120 vanadium oxide microbolometer for maximum performance, providing the firefighter with clear, crisp definition of objects in the scene. A revolutionary design allows for ease of use and easy integration with the firefighter's ensemble.



### Approvals and Standards for the Evolution Models

- NFPA 1981, 1997 edition (flame & heat)
- FCC Parts 15 & 90 (video telemetry)
- EMC emission: BS EN 50081-2:1992 (video telemetry)
- EMC immunity: BS EN 50082-2:1992 (video telemetry)
- Mil Spec 810e (vibration)
- IP67 (water & dust ingress)

**(301) 881-2713**  
**(800) 492-1400**  
[www.marylandfire.com](http://www.marylandfire.com)

## Industrial Scientific Corporation's Gas Detection/Monitoring Devices

# Detect the Gas Before You Begin the Task

Whether for a single gas application or a confined space environment requiring multi-gas monitoring, rely on Maryland Fire and Industrial Scientific for the products that enable you to detect the gas before your team encounters a potentially life-threatening situation!

### *iTX Multi-Gas Monitor*

The iTX is the industry's most versatile portable gas detection instrument. Designed to grow as your monitoring needs change, the iTX can go from a single gas unit to a six-gas monitor or anything in between. The iTX's "smart" sensor technology provides simplified, single-button operation. And, a Quick-Cal feature calibrates up to four sensors at once – a true time saver! Consider these other innovative features:

- Backlit dot matrix LCD that simultaneously displays all gases monitored

- Ultra-bright visual alarms
- Powerful 90dB audible alarm
- Compact, rugged stainless steel housing for maximum durability and RFI protection
- Datalogging up to 300 hours of survey data at one minute intervals
- STEL/TWA and peak readings
- User/site ID data entry
- Custom selections for 24 configurable parameters, including security code settings, alarm options, and calibration preferences
- Lifetime warranty

### *T40 Rattler Single Gas Monitor*

Designed to protect personnel from dangerous hydrogen sulfide or carbon monoxide gas exposure in the most extreme conditions, the T40 Rattler is ideally suited for applications in all temperature ranges. Compact and lightweight, it can easily

be clipped to a belt, shirt pocket, or hard hat. Gas concentrations are clearly displayed on a four-digit, seven-segment LCD, and the T40 Rattler will alert the user with either audible, visual, or vibrating alarms when a preset high, lower TWA, or STEL value is exceeded. Other features include:

- One-button automatic calibration
- 1500 hours runtime on 1 AA alkaline battery
- Peak/hold feature
- Two-year warranty



## Elkhart Brass CHIEF® Nozzles

# Low Pressure, High Performance



There has been a trend in the fire service industry for several years to utilize greater water flow for initial attack. Even with lightweight synthetic hose, this flow range can be hard to handle because of the reaction force encountered by the nozzle team.

There are two ways to reduce reaction force:

- Flow less water, or
- Reduce the nozzle pressure at which the water is being discharged.

By reducing the flow, you will also reduce your fire-fighting capabilities. However, by reducing the nozzle pressure to apply that flow, you merely reduce the reaction force of the fire stream...and that equates to less wear and tear on the nozzleman!

Maryland Fire is pleased to offer the entire line of Elkhart Brass' CHIEF® Nozzles, including the following models:

The CHIEF® 4000-14 Nozzle Tip offers these features:

- Finish hard anodized
- 95 GPM standard
- 60, 125, and 150 GPM optional
- Horseshoe handle standard
- Tab hand optional
- 1.5" swivel base

The CHIEF® 4000-18 offers these features:

- 1.5" Break-apart Nozzle with Pistol Grip
- Combination of Elkhart Brass' 4000-14 and LB-275GA ball shutoff
- 1.5" free swivel base

Contact your Maryland Fire representative today for all options offered within the CHIEF® Low-pressure line!

# Unifire's New PPV and PRO-SAWs

## The Power You Need from the Names You Can Trust

Maryland Fire and Unifire are pleased to bring you the latest technology in positive pressure ventilation (PPV) fans and saws designed to handle the toughest firefighting applications. Check out these highlights of the Unifire product line, then call your Maryland Fire representative for the details.



DST-3P4



PS-16DG



PS-COS 12/14

### DST-3P4

The NEW DST-3P4 has been breaking industry standards since its inception with a number of "firsts" that make this product #1 in the industry. The first to use stainless steel frames, the first to develop a wide-angle power prop, the first to offer 30 tilting positions, the first to offer the patented Water Mist System (the only one available on the market today), and the first to design the completely shatterproof Unitron blade, turn to the DST-3P4 to handle virtually any application!

Model: DST-3P4  
HP: 5.5  
CFM: 14,885  
H/W/D: 23" x 23" x 21.5"  
Blade: 18" - 4 Blade  
Weight: 81 lbs.  
Warranty: Lifetime warranty on props; five-year warranty on frames; two-year manufacturer's warranty on Honda engines.

### PS-16DG

When you purchase a professional grade fire saw, you expect it to last, and you also expect quality accessories to make your job easier and safer. Unifire has developed a safer, innovative, time saving, and high-performance saw to meet and exceed your expectations – the PRO-SAW 16DG-RAZZ. Built to meet the tough requirements of the fire service industry with durability, power, and safety in mind, this saw cuts faster than any other saw on the market today, and, with the recent Unifire upgrades, will outlast and outperform all other fire saws.

Model: PS-16DGRAZZ  
Cu. In.: 4.3  
CC: 71  
HP: 6  
RPM: 13,500  
Weight: 13 lbs w/o bar, chain, or depth gauge

### PS-COS 12/14

The PRO-SAW/CUT OFF SAW can cut virtually any material: brick, steel, and concrete. The perfect fire service saw, this PS-COS 12/14 is ergonomically designed to work in confined spaces and is lightweight for easy and safe operation.

Model: PS-COS 12 & 14  
CC: 71  
HP: 4.8-6  
RPM: 10,500  
Weight: 20 lbs.

Visit [www.marylandfire.com](http://www.marylandfire.com) for the latest information in the industry!

# Did You Know?

## Maryland Fire Offers Hose Coupling & Repair Services



**W**hen your department gets an emergency call, you need to respond with the right team and right equipment to handle any situation. And, of all the equipment necessary to tackle a fire, nothing is more imperative than your hoses and couplings.

In our ongoing dedication to provide you with the equipment and services you need for maximum performance, Maryland Fire offers hose coupling and repair services that feature:

■ **STATE-OF-THE-ART TECHNOLOGY**

*Equipped with the most advanced hydraulic expander from Red Head Brass, Inc., every attachment is snug, uniform, and secure.*

■ **CONVENIENT ACCESS TO OUR SERVICES**

*We can pick up and deliver your equipment, you can drop it off at our location, or ship it directly to us.*

■ **FAST TURNAROUND**

*Most repair services can be completed within five days.*

■ **GREATER VALUE**

*Compare our rates and quick response time with the competition, and you'll find that we deliver greater value along with your like-new equipment.*

■ **FLEXIBLE HOSE SIZES**

*We are able to couple hose sizes from booster to 5 inches.*

For more information about this service, contact  
Maryland Fire Equipment Corporation today!



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