



MSA FireHawk® M7 Air Mask

built with durability & performance
for critical life-safety personnel

MSA
The Safety Company



Designed to meet the NFPA 2007-edition standard.
Determined to exceed your safety equipment expectations!

Through the NFPA, firefighters have strived to improve the durability and performance of SCBA and PASS devices.

To this end, the new NFPA 2007-edition standards for self-contained breathing apparatus and personal alert safety systems call for a PASS alarm that performs at 500° F, electronics that remain waterproof after six immersion cycles at 1½ meters depth and 350°F heat exposure, and electronics that function after a rigorous three-hour tumble test. They also raised the bar on voice communication capability, now requiring a minimum score of 85% at a 10-ft distance (allowing an electronic or mechanical system; previously this requirement was 72% at five feet).

MSA's new **FireHawk M7 Air Mask** represents a true technological achievement in critical personal protection. As firefighters determined the safety requirements needed to meet new NFPA 1981 and 1982–2007-edition standards, MSA's engineering teams began designing the solutions.

The new FireHawk M7 Air Mask emerged with seven **life-safety** design components built on a **modular** air mask platform, developed to **exceed the new NFPA 2007** requirements, and provide firefighters with the highest-quality SCBA currently available.

1. Taking the Heat

Although MSA PASS alarms have performed in extreme temperatures for more than a decade, a top priority was to design an alarm that could **really take the heat!** The new FireHawk M7 PASS alarm (patent-pending) was developed in cooperation with prominent university acoustic experts, resulting in an emitter that exceeds 95 decibels with solid performance at the NFPA 500°F test!



2. Virtually "Bullet-Proof" Electronics

Like an armor shield, the FireHawk M7 HUD, Power Module, and Control Module are encased in a proprietary high-temperature impact-grade polymer, providing the highest possible protection against impact and water ingress. Electronics enclosures are permanently sonically **welded** to a hermetic standard to ensure a consistent water-tight seal. The new FireHawk M7 PASS electronics are virtually **"bullet-proof"** against fireground hazards.

MSA's new I-HUD Receiver is a wireless heads-up display (HUD) unit that fits securely inside of firefighters' facepieces, greatly reducing snag hazards and potential for contamination buildup. Inside facepiece placement of unit's electronics also provides protection from the elements.



3. Critical Communication

We've got you covered with communications, starting with a **high-performance mechanical speech diaphragm**, with performance that exceeds NFPA requirements as a stand-alone solution. Backing the mechanical diaphragm is an **electronic amplifier** with an internal facepiece microphone for ultimate clarity. The ClearCommand® Communication System provides clear communication during the most critical times. This air mask speaks loudly and clearly when it comes to communications safety.



4. Fireground Management

Firefighter accountability systems have never before been as practical, complete, and user-friendly as MSA's **Accountability System**. It's based upon the ICM® TxR Unit introduced in mid-2006, which has thousands of systems deployed in virtually every type of fire department. The unit displays a full array of visual and audible information for up to 100 firefighters within a one-mile-line-of-site – exactly what incident commanders wanted. Record-keeping is also made easy by downloading reports.

5. Emergency Egress



The new FireHawk M7 Air Mask is not your typical SCBA. Firefighters need to be prepared for the unexpected, and emergency egress from a second floor or higher can be impossible without the right safety equipment. That's why the FireHawk M7 Air Mask offers the Rescue Belt II System, an NFPA-compliant integrated rappelling system, providing firefighters with one more lifesaving option in the face of danger.



"Above and beyond" protection is also provided with the CBRN Firehawk® MMR. The CBRN Firehawk MMR includes a positive-protection Tetraplex™ Shield to prevent contact between chemical warfare agents and the most vulnerable component of regulators, the thin elastomeric diaphragm. Other "air-wash" approaches may pass in laboratory conditions, providing positive protection against all potential conditions.



External hazards are bad enough without having concerns of spreading illness among firefighters through shared-use SCBA. MSA's Ultra Elite® Facepiece helps to protect against cross-contamination with MSA's inhalation check valve, a must-have in modern safety equipment.

6. Lightweight and Easy-to-Use

Firefighters already have enough weight to carry and gear to maintain, so MSA engineers set out to lighten the number of components, reduce parts count, **simplify maintenance**, maximize user comfort, and **modularize** the design.

The FireHawk M7 Air Mask has a lightweight polymer backplate, with quick-release harness straps, an error-proof cam-lock cylinder attachment, fast change-out electronic components, a large swiveling lumbar pad, and regulators that will fit in the palm of your hand (less than 30 parts for the MMR and 14 for the first stage). Our time-tested Ultra Elite Facepiece has unbeatable comfort, visibility, communications, cross-contamination protection, fit, and seal.



7. Future-driven Design

The FireHawk M7 Air Mask is designed to accept **future technology upgrades**. Included in every FireHawk M7 Air Mask electronics ensemble is a 2.4GHz **personal wireless network**, a network that transmits and receives encrypted information over a short range on a firefighter's body. This wireless feature provides the capability to add on future technology that can provide additional information back to incident command through the Accountability System. You never have to worry about radio interference either – we have you covered with an RFI shield design that protects against all fireground radio signals. The new FireHawk M7 Air Mask provides you with the best technology today and positions you for the future.

FIREHAWK M7 AIR MASK



WHAT'S IN THIS AIR MASK?



Stainless steel cylinder band with secure cam-lock system

Quick-Fill® URC with Audi-Larm™ Audible Alarm

LED buddy lights

PASS alarm dual sound emitters

One-way inhalation check valve



Wide-view lens with Kevlar Speed-ON® Head Harness

Wireless FireHawk M7 I-HUD Receiver

High-visibility reflective panels

FireHawk M7 carrier and harness assembly with side handles and carabiner attachment

PR14™ First-Stage Regulator with only 14 internal parts

FireHawk M7 Control Module with accelerometer motion sensor, digital and mechanical pressure display time remaining, and thermal alarm

ExtendAire™ Emergency Breathing System

Parachute-style buckles



High-performance mechanical speaking diaphragm

Lumbar pad

Firehawk® MMR

Double-pull Kevlar waist belt

Ordering Information

Carbon-wrapped Cylinders

A unique outerwrap made of lightweight, high-performance carbon fibers, reducing cylinder weight by two to six pounds when compared to fiberglass-wrapped cylinders and by as much as 10 pounds when compared to aluminum cylinders. They are available in six models to accommodate a wide range of applications.



Cylinder Type (Cylinder & Valve)	NIOSH Service Rating Life	Pressure (psig)	Weight* (empty)	Part No.
L-30	30'	2216 psig	8 lbs. – 0 oz.	807586
L-30+	30'	3000 psig	9 lbs. – 8 oz.	816115
H-30	30'	4500 psig	7 lbs. – 4 oz.	807587
H-45	45'	4500 psig	9 lbs. – 7 oz.	807570
H-45 Low-Profile	45'	4500 psig	9 lbs. – 10 oz.	10035644
H-60	60'	4500 psig	11 lbs. – 12 oz.	807588

*All weights shown are approximate figures.

Note: This bulletin contains only a general description of the products shown. While uses and performance capabilities are described, under no circumstances shall the products be used by untrained or unqualified individuals and not until the product instructions including any warnings or cautions provided have been thoroughly read and understood. Only they contain the complete and detailed information concerning proper use and care of these products.



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