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Combination Supplied-Air Respirator



# **PremAire Cadet Escape Responder**

The PremAire Cadet Escape Responder with Escape Cylinder is versatile, comfortable, and affordable. A streamlined new design offers a first-stage regulator and cylinder valve within one assembly, creating a very small size and profile that is less likely to snag when working in tight places. Low-profile escape cylinders can be worn on the right or left hip. The Ultra Elite® Responder Pressure-Demand Facepiece with APR conversion capability offers choice of sizes and nose cups.

The PremAire Cadet Supplied-Air Responder with Escape Cylinder is a cost-effective respiratory protection solution for many industrial applications. For ordering ease and flexibility, this system is sold as a part-numbered kit. The PremAire Cadet Supplied-Air Responder with Escape Cylinder is NIOSH-approved as a combination supplied-air respirator and self-contained breathing apparatus.



#### **Features and Benefits**

- · New one-piece first-stage regulator and cylinder valve
- · Combination cylinder valve and first stage pressure reducer
- Very small size and profile
- · Regulator uses many MSA FireHawk SCBA parts
- Regulator body protects cylinder gauge; no need for rubber gauge guard, reduces size!
- Choice of cylinder hip placement allows workers freedom and versatility
- Two harness materials:
  - Standard nylon, ideal for chemical resistance
  - Kevlar, ideal in high heat environments or within areas with spark potential
- Two attachments keep cylinder secure on belt
- Sturdy metal cylinder support bands
- Nylon or Kevlar cylinder bags available for carbon fiber cylinders
- Shoulder support strap incorporates hose keeper; regulator hose stays in place close to body, reduces chance of snagging
- Bracket/holder for second stage pressure regulator



# PREMAIRE CADET ESCAPE RESPONDER



#### **PremAire Cadet Escape Respirator Kits**

| P/N      | Description   |
|----------|---|
| 10113607 | PremAire Cadet Escape Respirator,<br>10-minute carbon cylinder, Kevlar harness<br>with shoulder strap, metal cylinder carrier,<br>less facepiece. |

# Ultra Elite® FireHawk® M7 Responder® HUD Facepieces

# Facepiece with ClearCommand® System Bracket

| Size  | Standard | w/UID*   |  |  |  |  |
|---|----------|----------|--|--|--|--|
| Small   | 10093927 | 10094029 |  |  |  |  |
| Medium  | 10093926 | 10094028 |  |  |  |  |
| Large   | 10093928 | 10094030 |  |  |  |  |
| Facepiece without ClearCommand System Bracket |          |          |  |  |  |  |
| Small   | 10093924 | 10093930 |  |  |  |  |
| Medium  | 10093923 | 10093929 |  |  |  |  |

## Spare / Replacement M7 HUD

10093931

10093925

FireHawk M7 Responder HUD 10093911



Large



#### **Approvals**

The PremAire Cadet Escape Respirator is approved by the National Institute for Occupational Safety and Health (NIOSH) as an Open-Circuit, Pressure-Demand, Escape, Self-Contained Breathing Apparatus or Combination, Open-Circuit, Pressure-Demand, Escape, Self-Contained Breathing Apparatus and Type C, Supplied-Air Respirator (TC-13F-585, 586, 587 and 588). The respirator is approved for use at temperatures above -25°F. The compressed-air container shall be fully charged with air meeting the requirements of CGA C-7.1 Grade D or higher quality. When supplied with respirable air through an air supply hose; the air supply pressure range shall be 70-90 psig, the hose length shall be 8-300 feet, and the air supply shall meet the requirements of CGA C-7.1 Grade D or higher quality.

#### **Ordering information**

The PremAire Cadet Escape Respirator is sold through MSA's Assemble-To-Order (ATO) System or as part-numbered kits. These kits include a basic PremAire Cadet Escape Respirator with cylinder and regulator. Users may choose from the facepiece styles listed. See supplied-air system quick-disconnects chart on page 5 to order male plugs (use column 3 only), and female socket assemblies (use column 6 only) for the PremAire Cadet Escape Respirator. **These quick-disconnects must be ordered separately.** 

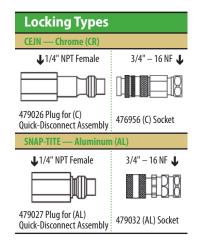
### **PremAire Cadet Escape Responder ATO**

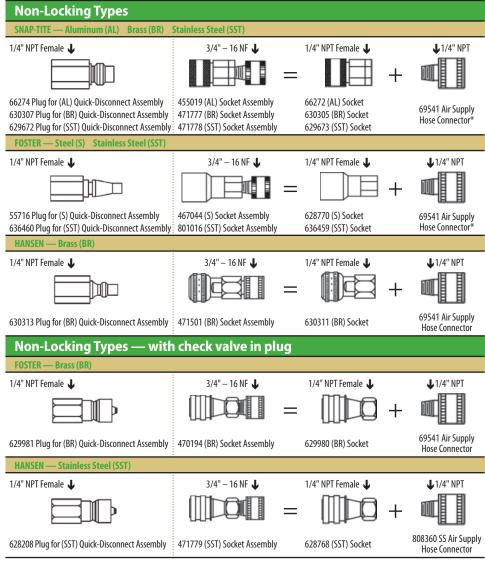
| Туре            |   | Carrier &<br>Harness Type   | Pa  | ad Option        |   | Escape<br>Cylinder  |   | MMR<br>Regulator                                       |               | Facepiece                               | 1 | losecup   | ı | Head<br>larness                    | C                   | uick-Disconnect |     | Case                            |
|-----------------|---|---|-----|------------------|---|---|---|--|---------------|---|---|---|---|------------------------------------|---------------------|-----------------|-----|---------------------------------|
| PC Cadet Escape | 2 | Nylon, strap<br>carrier, standard<br>Kevlar, strap<br>carrier, standard | 0 1 | None<br>Shoulder | В | 5-minute aluminum 10-minute aluminum 5-minute carbon 10-minute carbon | E | FireHawk Push-<br>To-Connect<br>Responder<br>Regulator | A P Q R S T U | Ultra Elite, Hycar,<br>Responder, small | 2 | None<br>Ultra<br>Elite,<br>medium<br>Ultra<br>Elite,<br>large | 1 | None<br>Rubber<br>SpeeD-<br>ON Net | A B C D E F G H J K | '               | 0 1 | None<br>Hard<br>plastic<br>case |

#### **Quick-Disconnect Assemblies**

Quick-disconnect assemblies for PremAire Cadet Escape Responders, shown below, can be used with PremAire Cadet Respirators. Quick-disconnects are required to connect air-supply hoses to the PremAire Cadet Respirator manifold and to the air source.

Locking quick-disconnects easily connect by pushing the plug and socket together. To separate, the plug and socket must first be pushed together, and then the sleeve retracted from the plug.





<sup>\*</sup> All SST Fittings have SST Union P/N 808360



#### **Approved Air-Supply Hose**

PremAire Cadet Escape Responder Respirators can be used with a wide range of MSA air-supply hose that can be interconnected up to a maximum length of 300 feet. A maximum of 12 sections of air-supply hose may be used in making up the maximum 300 feet working length of hose. Each section of coiled hose is considered to be 50 feet in length (maximum 6 sections). MSA air-supply hoses have various temperature limitations.

| Air-Supply Hose |                 |          |         |         |         |         |
|-----------------|-----------------|----------|---------|---------|---------|---------|
| Material        | Hose Coupling   | 100ft    | 50ft    | 25ft    | 15ft    | 8ft     |
| Neoprene        | Brass           |          | 455022  | 455021  | 455020  | 481071  |
| Neoprene        | Stainless Steel |          | 481080  | 481079  | 481078  | 481077  |
| PVC             | Brass           | 484225   | 471513  | 471512  | 471511  | 481051  |
| PVC             | Stainless Steel | <u> </u> | 481060  | 481059  | 481058  | 481057  |
| Coiled Nylon    | Brass           |          | 474043* | 491515* | 491514* | 491513* |

<sup>\*</sup> Recommended usable length, 4-25 ft.

#### **Air-Supply Hose Temperature Ranges**

 Neoprene
 PVC
 Nylon

 -25° to 212°F
 32° to 120°F
 0° to 160°F

#### **Interconnecting Air-Supply Hoses** Typical Threaded Connector Method. Screw the ends of the air supply hose together. Air-Supply Hose 👃 **J** 3/4" − 16 UNF 0-Ring **J** ♣ Air-Supply Hose This typical threaded connector method can be used to interconnect sections of approved air-supply hose to the PremAire System. CEJN - Chrome. Uses optional locking -type quick-disconnects to connect sections of air supply hose Quick-Disconnect Socket w/ Check Valve 476956 Quick-Disconnect Plug (no Check Valve) 476955 3/4" − 16 UNF **↓ ▲** 0-Ring ↑ Air-Supply Hose Air-Supply Hose 🕇 Socket and Plug Assembly 479009 ${\sf SNAP-TITE--Aluminum.}\ Uses\ optional\ locking-type\ quick-disconnects\ to\ connect\ sections\ of\ air\ supply\ hose.$ Quick-Disconnect Socket w/ Check Valve 479032 Quick-Disconnect Plug (no Check Valve) 479015 3/4" − 16 UNF **J J** 3/4" − 16 UNF **J** 0-Ring ↑ Air-Supply Hose Air-Supply Hose 1 Socket and Plug Assembly 479010

# **TECHNICAL RESCUE CART**





# **Technical Rescue Cart**

The Technical Rescue Cart is a steel cart with a color-designated control panel that allows one side of the panel to be used for primary respirator breathing air and one side for tool/secondary air requirements. Two one-hour cylinders are used to provide air for respirators. High-pressure cascade (fire truck) cylinder air is used to operate pneumatic tools. Standard features of the Technical Rescue Cart make it a unique and very versatile air cart for the fire service and HazMat industries.



#### **Features**

#### **Breathing Air segment includes:**

- Two-wheeled, poly-coated steel cart, two sets of double-cylinder straps, air-line hose rack, and adjustable pull handle
- · Low-pressure cylinder bell alarm
- Four-outlet manifold available with four-outlet fitting options

#### **Tooling Air segment includes:**

- CGA-347 fitting for auxiliary remote high-pressure air source attachment
- · Low-pressure pneumatic alarm whistle
- Four-outlet manifold with quick-disconnects

### **Applications**

Chemical/petrochemical

Hazardous materials

Confined space entry

Firefighting

## **Cart Weight and Dimensions**

**SIZE:** 35" H x 21" W x 15" D

**UNIT WEIGHT:** 54.5 pounds without cylinders

The Technical Rescue Cart is sold without air cylinders. MSA cylinders listed below can be used with the cart. 60-minute cylinder will provide maximum air supply.

| P/N      | Description  |
|----------|--|
| 10107535 | Technical Rescue Cart equipped with union adapters                       |
| 10107818 | Technical Rescue Cart equipped with Snap-Tite Aluminum Quick-disconnects |
| 10107820 | Technical Rescue Cart equipped with Foster Steel Quick-disconnects       |
| 10107819 | Technical Rescue Cart equipped with<br>Hansen Brass Quick-disconnects    |

| P/N    | Description                                |
|--------|--|
| 807588 | 60-minute, H-60<br>carbon-wrapped cylinder |
| 807570 | 45-minute, H-45<br>carbon-wrapped cylinder |
| 807587 | 30-minute, H-30<br>carbon-wrapped cylinder |

## **Technical Rescue Cart Components**

- 1 Nylon cylinder strap
- 2 Pull pin for hose bracket
- Pull pin for handle
- (4) CGA 347 nut, hand-tightening
- 5 Breathing air low-pressure alarm bell
- 6 Auxiliary low-pressure whistle
- 7 Breathing air cylinder pressure gauge
- **8** Tool air pressure gauge
- Breathing air pressure regulator
- Tool air high-pressure regulator
- 11 Respirator fittings
- Tool fittings
- Tool air low-pressure regulator
- (14) Low-pressure accessory air tool



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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