



# Essex PB&R Corporation

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## ESSEX PB&R Pilot Unit



## TECHNICAL DATA PACKAGE



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## GENERAL INFORMATION

Intended Use: The Essex PB&R Pilot Unit is to be used in tandem with a Pilot's Oxygen Mask. It consists of a protective hood and neck seal, that when donned along with an onboard oxygen mask, protects the cockpit crew from smoke, toxic fumes and heat. The Pilot Unit also provides a reservoir of air and heat protection that provides the cockpit crew time to disconnect the oxygen tube and escape the plane. The Pilot Unit is intended to be used by trained individuals in aircraft emergencies.

**WARNING:** The Pilot Unit is designed for heat and fume/smoke protection only and is not a breathing device. It is designed to be used with the pilot's oxygen mask. Use of the Pilot Unit without simultaneous use of a functioning oxygen mask may result in suffocation and death.

## MODEL NUMBER

MR-10008N - Pilot Unit



**Pilot Unit with Quick-Don Mask**

**Model # MR-10008N**



**Photo of Pilot Unit, Model # MR-10008N as worn**

**SIZE**

7 1/2 in. x 8 3/8 in. x 1 in.

**WEIGHT**

6 ounces

**PACKAGING**

The Pilot Unit is folded and placed inside a Nylon, Sail Cloth Stowage Pouch.

### Pilot Unit in Stowage Pouch



**Model # MR-10008N**

#### **SHELF LIFE**

10-years 6-months from the Date of Manufacture

Note: The equipment design life of a Pilot Unit, Model # MR-10008N was originally specified as being in excess of ten (10) years when properly stored. As of January 1, 2003, Essex PB & R recommends that the units be replaced after ten (10) years. All newly manufactured Pilot Units will be labeled with a "Replace By Date" expiration label.

In order to determine the age of the Pilot Units already in-service, the serial number label on the base of the hood shell needs to be examined. The second and third digits of the serial designate the year of manufacture.



Example(s):

- 1) Serial # of P9400179 Current Date: June 2004

The 1<sup>st</sup> digit - designates that the unit is a Pilot Unit

The 2<sup>nd</sup> and 3<sup>rd</sup> digits - designate that the unit was manufactured in 1994

The remaining digits - designate that the units was the 179<sup>th</sup> Pilot Unit made in 1994

2004 – 1994 = 10 years, therefore, this unit is acceptable for use (until January 1, 2005).

- 2) Serial # of P9300250 Current Date: June 2004

The 1<sup>st</sup> digit - designates that the unit is a Pilot Unit

The 2<sup>nd</sup> and 3<sup>rd</sup> digits - designate that the unit was manufactured in 1993

The remaining digits - designate that the units was the 250<sup>th</sup> Pilot Unit made in 1993

2004 – 1993 = 11 years, therefore, this unit has expired and needs to be pulled from service.

## **DONNING**

Less than 15 seconds, from retrieval through donning.

## **SIZING/FITTING**

One size fits all adults.

## **VISIBILITY**

360 degrees

## **MATERIALS OF CONSTRUCTION**

### **Hood**

The hood is constructed of PFA film, which provides excellent resistance to most chemicals. It measures 13 inches at its circular base, and is 17 inches high, with an internal volume of approximately 23 liters (slightly less than 1 cubic foot).

### **Neck Seal**

The neck seal is a high strength, highly elastic silicone rubber design that fits most adults.



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## STATEMENT OF WARRANTY FOR PILOT UNIT

Essex P. B. & R. Corp. warrants that: (1) The Essex Pilot Unit (hereinafter referred to as the “unit”) will remain free from defects in material and workmanship, whether patent or latent, for up to the replace by date which is a period of ten (10) years and six months from the date of manufacture period of ten (10) years and six (6) months when properly stowed in containers supplied or approved by Essex P. B. & R. Corp.

The liability of Essex P. B. & R. Corp. for any defect in any unit, and the sole and exclusive remedy of the buyer, shall be limited to the repair or replacement of the defective unit, or a refund of the original purchase price (pro-rated in proportion to the ten (10) year and six (6) month warranty) at the sole discretion of Essex P. B. & R. Corp. The obligation to repair, replace, or provide a pro-rated refund shall terminate ten (10) years and six (6) after the date of manufacture of the unit.

This warranty is in lieu of all other warranties and representations, expressed or implied, and all other obligations and liabilities of Essex P. B. & R. Corp. Correction of defects, in the manner and for the period of time provided above, shall constitute fulfillment of all liabilities of Essex P. B. & R. Corp. whether based on warranty, tort, contract or otherwise. Under no circumstances shall Essex P. B. & R. Corp. be liable for any punitive, special, incidental or consequential damages.

This warranty shall not apply to any unit that has been stowed in an unauthorized container, which has been repaired or altered by anyone other than Essex P. B. & R. Corp., or which has been subject to misuse due to negligence or accident, or the failure to use the unit in accordance with the Product’s Manual supplied by Essex P. B. & R. Corp.

**THE FOREGOING WARRANTIES ARE IN LIEU OF ALL WARRANTIES, EITHER EXPRESSED OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED WARRANTY OF MERCHANTABILITY, NON-INFRINGEMENT, OR FITNESS FOR A PARTICULAR PURPOSE, AND OF ANY OTHER OBLIGATION ON THE PART OF ESSEX P. B. & R. CORP.**



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## DONNING PROCEDURE

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### Essex PB&R Pilot Unit Donning Steps

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1. Open flap on stowage pouch.
2. Remove Pilot Unit from pouch and unfold.
3. Open hood and loop closure between oxygen hose and neck openings.
4. Position neck seal towards your body with small oxygen hose opening facing down.
5. Place both hands inside the neck seal opening, palms facing each other, and spread the neck seal open.
6. Pull the hood over your head and neck.

Note: It is unnecessary to remove Eye Glasses.

7. Close hook and loop closure capturing the oxygen hose into the oxygen hose opening.
8. Remove hood after you are clear of the hazard or when instructed.

**WARNING: THE ESSEX PILOT UNIT IS INTENDED TO BE USED ONLY BY, OR UNDER THE SUPERVISION OF, AN INDIVIDUAL TRAINED AND QUALIFIED IN THEIR USE. IMPROPER USE OF THIS EQUIPMENT MAY RESULT IN SERIOUS PERSONAL INJURY OR DEATH. IMPROPER USE INCLUDES, BUT IS NOT LIMITED TO, USE OTHER THAN IN ACCORDANCE WITH THE INSTRUCTIONS AND LABELS PROVIDED.**