



## PBE

## EPOS

Essex offers both the **PBE (PROTECTIVE BREATHING EQUIPMENT)** for crewmembers and the **EPOS (EMERGENCY PASSENGER OXYGEN SYSTEM)** for passengers and crew to provide compressed aviator grade oxygen in an aircraft emergency. The PBE is currently used by nearly every US commercial carrier and has FAA TSO-C116, TSO-C99, CAA, EASA, CAAC and ANAC approvals.

- Protects Against Toxic Fumes & Smoke
- Dons in Just 15 Seconds
- Wide Range of Visibility
- No Mouth Piece Allows for Communication
- One Size Fits Most Adults
- 10 ½ Year Shelf Life

|                                                             | PBE                                                                                                                               | EPOS            |
|-------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------|-----------------|
| W"x L"x H" IN FABRIC POUCH                                  | 16 x 2 x 11                                                                                                                       | 9 ½ x 2 x 7 ½   |
| WEIGHT                                                      | 3.2 LBS.                                                                                                                          | 2 LBS.          |
| PROVIDES PROTECTION AGAINST                                 | TOXIC FUMES, SMOKE & HEAT                                                                                                         |                 |
| TIME DURATION<br>(DEPENDS ON WORKLOAD & PHYSICAL CONDITION) | UP TO 60 MINUTES                                                                                                                  | 20 MINUTES      |
| SOURCE OF BREATHABLE AIR                                    | AVIATOR GRADE COMPRESSED OXYGEN. O <sub>2</sub> CYLINDER, WITH OVERPRESSURE PROTECTION TO PREVENT RUPTURE.                        |                 |
| SYSTEM TYPE                                                 | CLOSED CIRCUIT REBREATHING SYSTEM                                                                                                 |                 |
| HERMETICALLY SEALED                                         | ✓                                                                                                                                 |                 |
| CARBON DIOXIDE CONTROL                                      | PATENTED PASSIVE SCRUBBERS                                                                                                        |                 |
| DONNING TIME                                                | 15 SECONDS                                                                                                                        |                 |
| CARBON DIOXIDE (MAX AVERAGE)                                | 4%                                                                                                                                |                 |
| OXYGEN (MINIMUM VALUE)                                      | 18%                                                                                                                               |                 |
| OXYGEN ACTIVATION                                           | SEMI-AUTOMATIC                                                                                                                    | MANUAL          |
| SHELF LIFE                                                  | 10-YEARS 6-MONTHS FROM THE DATE OF MANUFACTURE                                                                                    |                 |
| HUMIDITY INDICATOR                                          | ✓                                                                                                                                 |                 |
| SERVICE INDICATOR                                           | ✓                                                                                                                                 | —               |
| TAMPER EVIDENT SEALS                                        | ✓                                                                                                                                 | —               |
| SIZING/FITTING                                              | FITS 5TH TO 95TH PERCENTILE ADULTS WITHOUT ADJUSTMENT                                                                             |                 |
| VISIBILITY                                                  | 270°                                                                                                                              | 360°            |
| ANTI-FOG                                                    | ✓                                                                                                                                 |                 |
| ORAL COMMUNICATION                                          | EFFECTIVE AT 12 FEET                                                                                                              |                 |
| INSIDE HOOD TEMPERATURE                                     | 104°F MAX @ 68°F AMBIENT                                                                                                          |                 |
| OPERATING TEMPERATURE RANGE                                 | 5° F TO 120° F                                                                                                                    |                 |
| STOWAGE TEMPERATURE RANGE                                   | -20° F TO 185° F                                                                                                                  |                 |
| CABIN PRESSURE ALTITUDE                                     | 8,000 FEET                                                                                                                        |                 |
| THERMAL RESISTANCE                                          | RADIANT HEAT - 1.0 BTU/SQ. FT. FOR UP TO 60 SECONDS,<br>DRIPPING THERMOPLASTIC - 390°F,<br>TRANSIENT FLAME - 1800°F FOR 5 SECONDS |                 |
| PROTECTION FACTOR RATIO (TYPICAL)                           | 260 @ 80 WATTS                                                                                                                    |                 |
| VARIOUS STOWAGE OPTIONS                                     | 15 DIFFERENT STOWAGE OPTIONS AVAILABLE                                                                                            | —               |
| PACKAGING                                                   | SOFT POUCH AND HARD CASES AVAILABLE                                                                                               | SOFT POUCH ONLY |

**⚠ WARNING:** THIS PRODUCT CAN EXPOSE YOU TO CHEMICALS INCLUDING LEAD, WHICH IS KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER, AND BIRTH DEFECTS OR OTHER REPRODUCTIVE HARM. FOR MORE INFORMATION GO TO [www.P65Warnings.ca.gov](http://www.P65Warnings.ca.gov).