

# PBE / SCU

Essex offers both the **PBE (PROTECTIVE BREATHING EQUIPMENT)** for crewmembers and the **SCU (SELF-CONTAINED UNIT)** 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	SCU
W"x L"x H" IN FABRIC POUCH	16 x 2 x 11	9 ½ x 2 x 7 ½
WEIGHT	3.3 LBS.	2 LBS.
PROVIDES PROTECTION AGAINST	TOXIC FUMES, SMOKE & HEAT	
TIME DURATION (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, DRIPPING THERMOPLASTIC - 390°F, 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).

# TYPICAL DONNING PROCEDURE

EXAMPLE SHOWN IS FOR THE SCU ONLY

STEP  
1

Pull Tab, Open Pouch



STEP  
2

Unfold Hood



STEP  
3

Insert Hands to Open Neckseal and Pull Over Head



STEP  
4

Grasp Oxygen Cylinder and Pull the String (Red Ball)



**WARNING:** Remove the hood immediately if the hood fails to slowly inflate after donning or if it collapses up against the face.

