



The Essex PBE is a lightweight, portable, self-contained, personal breathing device designed to safeguard flight attendants and crewmembers from the effects of smoke, carbon dioxide, harmful gases and oxygen deficiency while managing an aircraft emergency.

### **SAFE CONSTRUCTION**

The Essex PBE utilizes compressed oxygen cylinders and patented passive scrubbers for CO<sub>2</sub> removal, unlike other products that use chemical-oxygen generators.

The PBE also features a battery powered green and red light service/end-of-service indicator, reassuring the wearer that the unit is functioning properly and providing a signal when the service life has ended.

### **EASY TO USE**

The PBE dons in just 15 seconds. The hood provides 270° of visibility and allows for communication as no oral/nasal mask is required.

### **LIGHTWEIGHT**

The Essex PBE is thin, flexible and easy to wear. It has the lightest stowage and end use weight, with a variety of stowage options to meet any requirement.



## DONS IN JUST 15 SECONDS



## DESIGNED FOR RELIABILITY

### THE ESSEX PBE HAS THE FOLLOWING APPROVALS:

Federal Aviation Administration (FAA) approved to: TSO-C116, Crewmember Protective Breathing Equipment and TSO-C99, Crewmember Protective Breathing Equipment  
Civil Aviation Authority (CAA) approved (United Kingdom)  
Civil Aviation Authority of China (CAAC) approved  
Brazilian Civil Aviation Authority (ANAC) approved  
European Aviation Safety Agency (EASA) approved to: ETSO-C116, Crewmember Protective Breathing Equipment and ETSO-C99, Crewmember Protective Breathing Equipment

## SPECIFICATIONS

<b>W"x L"x H"</b>	16 x 2 x 11 (HOOD FOLDED IN POUCH. NO BRACKET)
<b>WEIGHT</b>	3.2 LBS (HOOD AS WORN. NO POUCH)
<b>TIME DURATION</b>	UP TO 60 MINUTES, 15 MINUTES MINIMUM UNDER HEAVY WORKLOAD
<b>SOURCE OF BREATHABLE AIR</b>	AVIATOR GRADE COMPRESSED OXYGEN. O <sub>2</sub> CYLINDER, WITH OVERPRESSURE PROTECTION TO PREVENT RUPTURE.
<b>CARBON DIOXIDE CONTROL</b>	PATENTED PASSIVE SCRUBBERS
<b>DONNING TIME</b>	LESS THAN 15 SECONDS
<b>CARBON DIOXIDE (MAX AVERAGE)</b>	4%
<b>OXYGEN (MINIMUM VALUE)</b>	18%
<b>OXYGEN ACTIVATION</b>	SEMI-AUTOMATIC
<b>SHELF LIFE</b>	10-YEARS 6-MONTHS FROM THE DATE OF MANUFACTURE
<b>SIZING/FITTING</b>	FITS 5TH TO 95TH PERCENTILE ADULTS WITHOUT ADJUSTMENT
<b>VISIBILITY</b>	270°
<b>ORAL COMMUNICATION</b>	EFFECTIVE AT 12 FEET
<b>INSIDE HOOD TEMPERATURE</b>	104°F MAX @ 68°F AMBIENT
<b>OPERATING TEMPERATURE RANGE</b>	5° F TO 120° F
<b>STOWAGE TEMPERATURE RANGE</b>	-20° F TO 185° F
<b>CABIN PRESSURE ALTITUDE</b>	8,000 FEET
<b>THERMAL RESISTANCE</b>	RADIANT HEAT - 1.0 BTU/SQ. FT. FOR UP TO 60 SECONDS, DRIPPING THERMOPLASTIC - 390°F, TRANSIENT FLAME - 1800°F FOR 5 SECONDS
<b>PROTECTION FACTOR RATIO (TYPICAL)</b>	260 @ 80 WATTS
<b>STOWAGE OPTIONS</b>	MULTIPLE STOWAGE OPTIONS AVAILABLE

**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).