



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 CO₂ 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

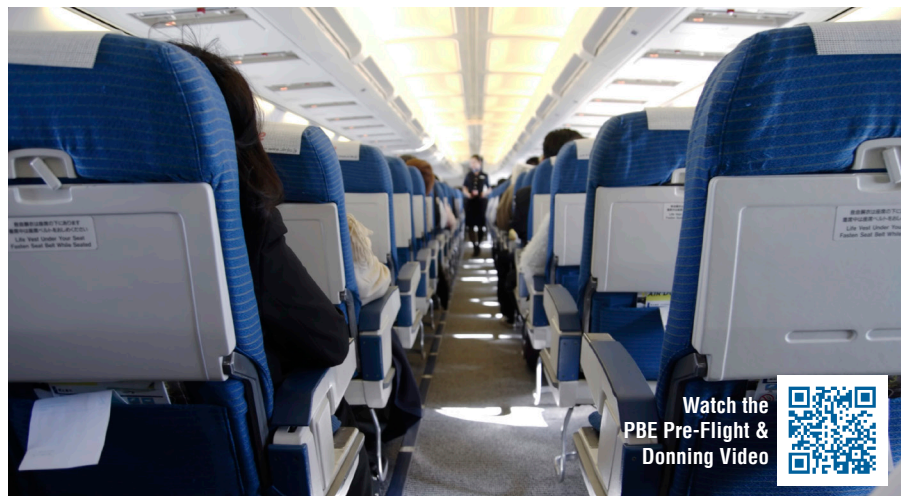
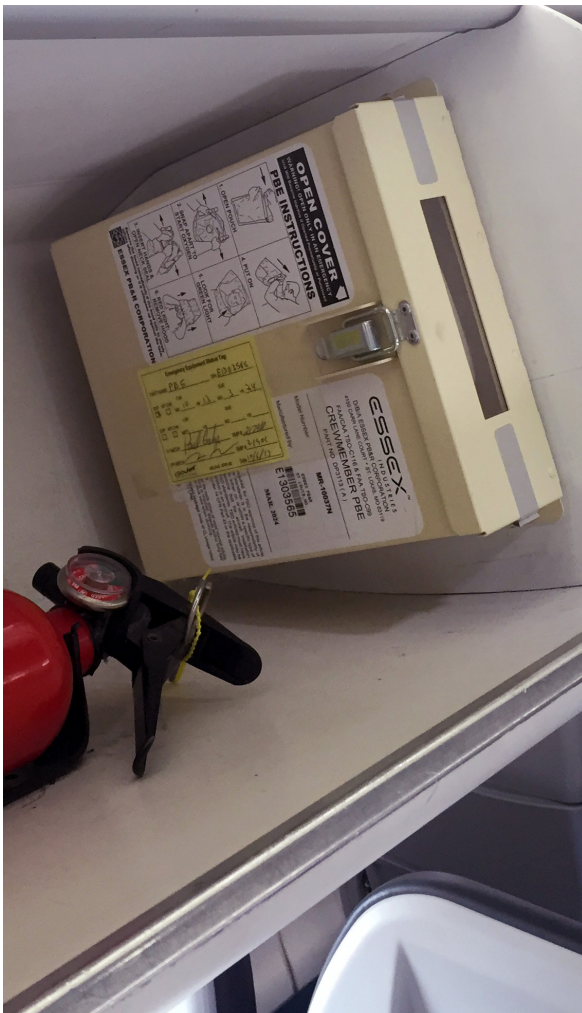
The PBE dons in just 15 seconds. The hood provides 270° of visibility and allows for communication as no oral/nasal mask is required.



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.

The PBE is a proven design that has been in service worldwide in commercial aviation fleets since 1989. Thousands of units have been actuated over the years in product development, testing and actual use.



Watch the
PBE Pre-Flight &
Donning Video





WATCH IT DON 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

W"x L"x H"	16 x 2 x 11 (IN POUCH)
WEIGHT	3.2 LBS (NOT IN POUCH)
TIME DURATION	UP TO 60 MINUTES, 15 MINUTES MINIMUM UNDER HEAVY WORKLOAD
SOURCE OF BREATHABLE AIR	AVIATOR GRADE COMPRESSED OXYGEN. O ₂ CYLINDER, WITH OVERPRESSURE PROTECTION TO PREVENT RUPTURE.
CARBON DIOXIDE CONTROL	PATENTED PASSIVE SCRUBBERS
DONNING TIME	15 SECONDS
CARBON DIOXIDE (MAX AVERAGE)	4%
OXYGEN (MINIMUM VALUE)	18%
OXYGEN ACTIVATION	SEMI-AUTOMATIC
SHELF LIFE	10-YEARS 6-MONTHS FROM THE DATE OF MANUFACTURE
SIZING/FITTING	FITS 5TH TO 95TH PERCENTILE ADULTS WITHOUT ADJUSTMENT
VISIBILITY	270°
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
STOWAGE OPTIONS	15 DIFFERENT STOWAGE OPTIONS AVAILABLE