



D.MARCHIORI

EPS1 Pressure and Vacuum generator



PRESSURE and VACUUM GENERATOR

The DMA EPS1 is a pressure and vacuum supply box designed to generate the pressures needed by Air Data Test sets.

The portable plastic case contains two membrane pumps for vacuum and pressure and a wide range capability power supply. Electronic control circuitry is used to drive the pumps as commanded by the pressure sensor monitoring the vacuum and generated overpressure.

Two pneumatic fittings with AN modified couplings connect the EPS1 generator with the DMA MPS36 air data tester.

EASE OF USE

By simply pneumatically connecting the ADTS with the EPS1 pressure generator, then connecting the power supply, when the unit is turned On the system is operational.

LOW MAINTENANCE

The membrane pumps utilised do not require any maintenance. It is only necessary to periodically drain (every 1 to 3 months depending on the use) the overpressure reservoir by pressing the drain button for 5 seconds.

EXTENDED RANGE AIRCRAFT TYPE

The DMA EPS1 can be used to generate the vacuum and pressure in conjunction with pressure controllers to achieve >70000 feet altitude and up to 850 Knots airspeed.

Note: --- Specifications subject to change ---

FEATURES

- Vacuum pressure (Ps) to: 27 hPa abs.
- Positive pressure (Pt) to: 2800 hPa abs.
- On demand running pumps
- 100 to 240 Vac power supply
- Low maintenance design
- Light weight, portable, plastic case

PHYSICAL SPECIFICATIONS

Weight: 10 kg (22 lb.)
Dimensions: L 430, W 360, H 180 mm
(17" x 14" x 7")

POWER SUPPLY

Universal power supply: 90-240 Vac; 50-400 Hz.
External battery supply available – P/N EPU8E

TEMPERATURE RANGE

Operating: -5°C to +50°C
Storage: -20°C to +70°C

WARRANTY

Unit 24 months
Pump 5,000 hours

CASE

Lightweight, rugged HDPE plastic case

OPTIONS

Custom Pitot/Static connections available



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