:: DATASCOPE® SYSTEM 97E ::

- Intra-Aortic Balloon Pump
- It is a compact, yet comprehensive IABP system designed to handle the most complex clinical situations by adjusting automatically to changing patient conditions
- Analyses cardiac interval patterns
- Cardiac Assist Feature

### Specifications

**Mechanical**
Dimensions: 43”H x 22”W x 17”D, 109 cm H x 51 cm W x 25 cm D.  Off hospital cart: 27”H x 50” W x 10”D, 68 cm H x 51 cm W x 25 cm D.  Weight: console – 82 lbs (37 kg), battery – 35 lbs (16 kg), monitor – 8 lbs (4 kg), hospital cart 58 lbs (26 kg)

**Electrical**
Battery pack: 24 V DC, 18 Ah.  Type: sealed lead acid, maintenance free.  Battery operating time: 2 hours @120 bpm.  Battery recharge time: 18 hours maximum from completely discharge to full.  AC power requirement: 300 VA normal, 90-130V, 50/60 Hz; 200-260, 50/60 Hz.

**Pneumatics**

**Display**
Type: gas plasma, 5.2” x 8.25”, 132 mm x 210 mm.  Channels: ECG and arterial pressure plus optional balloon pressure waveform.  Reference line: 0 – 300 mm Hg/max

**ECG**
Leads: I, II, III, aVR, aVL, aVF, V.  Frequency response: 0.5 – 135Hz output jack 0.5 – 12Hz display.  Leakage current: <10µA source current, <20µA sink current.  Defibrillator protection: discharge levels up to 500 joules.  Recover time: trace returns to screen, 2 sec maximum.

**Trigger Source**
ECG trigger requirement: 120µV ± 20µV/40µV at max. gain.  Pacer rejection (no tails): ±2mV to ±700 mV duration 0.1 ms to 2 ms.  Pressure: adjustable between 7 mmHg to 30 mmHg pulse amplitude.  Pacer A-V: A-V interval 80-225 ms rate < or equal to 125 bpm.  Pacer A: trigger requirement (same as ECG).  Pacer V: <185 bpm.  Internal: 40 –120 in 5 bpm increments; default rate 80 ± 1 bpm.  ESIIS: automatic suppression with internal ECG amplifier.

**Pressure**
Pressure sensitivity to trigger: 7 mmHg min pulse amplitude.  Transducer requirements: sensitivity: 5.0 µV/V/mmHg.  Excitation: +5V DC.  Zero range: ±120 mmHg

**Inputs/Outputs**
ECG connectors: 6-pin 5-lead AAMI proposed standard; patient input 3-conductor phone jacks; monitor level.  Pressure connectors: 6-pin male connector, Datascope-specified compatible transducer; 3-conductor phone jack; monitor level.  Voltage interface: ECG = 1V/mV nominal arterial pressure = 1V/100 mmHg nominal.

**Trend Display**
Memory: 8 hours total; 30 minutes of 5 minutes average; 7.5 hours of 15 minutes average.  Data available: heart rate, peak systolic pressure, diastolic pressure, mean and augmented pressure.

**Recording Format**

**Annotations**
ECG: lead.  Pressure: scale.  Parameters: heart rate, systolic, diastolic, mean, augmented pressure.  Trend: same as trend display

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