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Breathing machine

Description:

The breathing machine comprises three major assemblies:

1. A pneumatic cylinder (and an optional slave cylinder for CO2 dead space testing)
2. A geared electric motor and mechanical drive mechanism
3. Control gear for the motor and solenoid operated valves

By making the appropriate adjustments to the motor controller and the mechanical drive mechanism respectively, the pneumatic cylinder is capable of providing any one of five pre-set swept volumes of 1.0, 1.5, 1.75, 2.0 and 2.5 litres at infinitely variable rates up to 40 strokes per minute.

The slave cylinder provides a swept volume equivalent to 5% of that of the main cylinder.

In order to provide positive airflow control, four solenoid-operated valves are provided. The solenoids are controlled by a switch, which is operated by a cam fitted to the motor drive shaft.

The valves should be connected in line with the 1" bore pvc tubing provided (1/2" bore for the CO2 circuit). The exact connection arrangement of the tubing and the valves, with respect to the dummy headform which carries the facemask under test, will depend upon the standard being employed. An example is given EN136, full face masks.

Services required:

Bench mounted. 230 or 115 vac, 50 / 60Hz mains electricity. Please specify.

Approximate packed size & weight: 130 x 75 x 60 cm : 150 kg

Relevant standards: ENs 136 / 140 / 149 etc

Delivery: Approximately 12 weeks from receipt of order and deposit.

Effective: May 2008