

Penlon Nuffield

Anesthesia Ventilator

A new, MRI-compatible, pneumatically driven ventilator

This time-cycled unit is powered by medical air or oxygen at 340 kPa- 410 kPa and has pre-set volume and flow rate for small and large animals. The Nuffield 200 is a pneumatically driven time-cycled ventilator with pre-set volume and flow rate for large or small animal patients. The four controls provide a wide range of settings that enable a constant flow during the inspiratory phase and infinite variability of I:E settings. A suitable ventilator alarm and pollution control system is available for use with the Nuffield 200 if required.

FEATURES

Simple Controls

A wide range of settings enable a constant flow during the inspiratory phase and infinite variability of I:E settings.

Manometer

Respiratory manometer with a range of -20 to 100 cmH₂O and zero adjustment facility.

IDP Alarm

A suitable ventilator alarm and pollution control system can be attached to the ventilator, if required

Newton Valve

The Standard Patient Valve can be replaced with the Newton Valve for the ventilation of small patients



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SPECIFICATIONS



Weight:
6.8 lbs (3.1 kg)

Power Source
Medical air or oxygen at 340 kPa (50 lbf/in²) - 410 kPa (60 lbf/in²)

Tidal Volume
10ml - 300ml (Newton Valve)
50ml - 2000ml (Standard Valve)

Frequency
10 - 85 (cycle/min)

Frequency for HFPPV
60 - 125 (cycle/min)

Inspiratory Flow (litres per second)
0.25 - 1.0 (independent and continuously variable)

I:E Ratio
Continuously variable and dependent on chosen I & E settings

Gas Consumption
Minute volume plus 0.1 litre/cycle to power fluid logic circuit

Minute Volume
1.0 - 30.0 litres

Inspiratory
Time: 0.2 - 2.0 sec. (independent and continuously variable)
Flow: 0.25 - 1.0 litres/sec (independent and continuously variable)
Pressure Relief: 60cm H₂O

Expiratory
Time: 0.5 - 4.0 sec. (independent and continuously variable)
Resistance: 2.5 cm H₂O/litre
Respiratory Manometer: Range -20 to +100cm H₂O with zero adjust facility