

Pneupac

babyPAC

100 ventilator



***Emergency and transport ventilation
for your younger patients - keeping
you in control at all times***

** With built-in pressure monitoring and alarm system*

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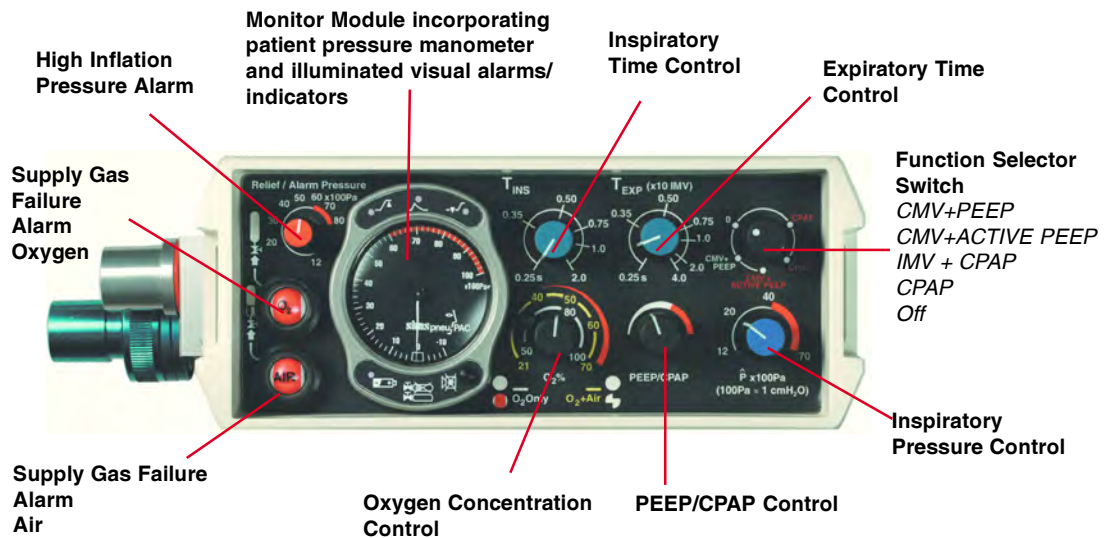
babyPAC 100

The babyPAC 100 ventilator is specially developed for ventilation during transportation of neonates and infants up to 20kg. It incorporates a unique gas mixing system, which maximises the gas supply whilst delivering precise concentrations.

Within a compact package the unit provides all the features required to fully control ventilation parameters.

A new integrated electronic pressure monitoring and alarm system gives you additional assurance whilst ventilating your patient.

- **Gas powered, lightweight, portable**
- **Unique variable concentration gas mixing system**
Extends cylinder life up to 3 times using air entrainment
- **Inspiratory pressure control**
- **Separate controls for inspiratory and expiratory times**
Allows easy selection of optimum controlled mandatory ventilation (CMV)
- **IMV expiratory time**
- **PEEP/CPAP control**
- **Four operating modes**
CMV+PEEP; CMV+ACTIVE PEEP; IMV+CPAP; CPAP
- **Efficient ventilator operation**
Pneumatic circuits designed to minimise gas consumption
- **NEW! Comprehensive integrated alarm system**
Helps you detect possible adverse changes in your patient's ventilation during CMV. Includes visual and audible alarms for high pressure, continuous pressure, low pressure/disconnect, low gas supply pressure and low battery, plus many other safety features
- **MR Compatible**
Giving maximum flexibility for transport within the hospital
- **Independent, adjustable, pneumatic, high pressure alarm**
- **Suitable for long distance transport of patients**
- **Satisfies all the stringent demands of the latest standard for emergency and transport ventilators, EN794-3, 1999**

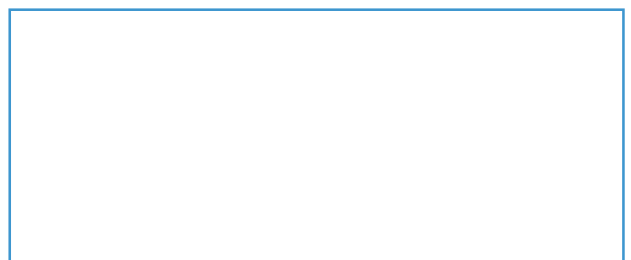


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For further information, please call your local Pneupac distributor or Pneupac direct on +44 (0)1582 430000

Pneupac

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babyPAC 100

technical data



Principle of Operation: Time cycled, pressure generator

Power Source for Ventilation: Dry, oil free, filtered gas:
305 - 600 kPa at 20 L/min

Inspiratory time: 0.25 - 2.0 seconds

Expiratory time: 0.25 - 4.0 seconds

Expiratory time, IMV: 2.5 - 40 seconds

Tidal Volume: 0 to 330 ml

Frequency: 10 - 80 b/min (I:E 1:2)
12 - 96 b/min (I:E 1:1.5)
15 - 120 b/min (I:E 1:1)

Flow in Breathing Circuit: Preset at 10 L/min

Delivered Inspiratory Flow: 0 - 10L/min

Inspiratory Pressure Control: 12 - 70 x100Pa (12 - 70cmH₂O) with click action warning above 40 x100Pa (40cmH₂O)

Calibrated Variable Oxygen Concentration:

45 - 100% with oxygen only as supply
21 - 70% with oxygen and air supplies

Audible High Pressure Alarm: 12-80 x100Pa (12-80cmH₂O) with pressure limiting

Active PEEP/CPAP: 2/3 - 20 x100Pa (2/3 - 20cmH₂O) with click action warning above 10 x100Pa (10cmH₂O)

Passive PEEP: 0 - 20cmH₂O

Patient Pressure Monitor: Indicates from -10 - 100 x100Pa (-10 - 100cmH₂O)

Gas Consumption: Typical operating time with E-sized O₂ cylinder (5.4 L water capacity; 680 L at 137 bar), depending on O₂ settings, 2 - 6 hours CMV; 1.0 - 2.6 hours CPAP

Battery for Powering Alarm System: Single cell 3V Lithium, size 123A (camera battery) or size AA, 3.6V Lithium supplied by SIMS pneuPAC and suitable for MRI use

MR Compatible: Testing has confirmed compatibility in a 3 Tesla actively shielded magnet with a max gradient of 430 G/cm and RF of 0.82 W/kg at 125.5 MHz.

Patient Circuit Connectors: 22/15 co-axial conical

Patient Circuit: Autoclavable, 6mm bore silicone rubber hose with plastic 15mm conical connectors

Supply Gas Input Connectors: Non interchangeable, proprietary, gas specific, permanent connectors. User connections conforming to certain National and International Standards available as options.

Input Hoses: As standard 2 metre long, 3mm bore with probes to BS5682 for oxygen and air. Colour coded to BS1319 and ISO32. (Oxygen white, Air black with white bands) Alternative hoses available as options

Dimensions: 92H x 250W x 162D mm

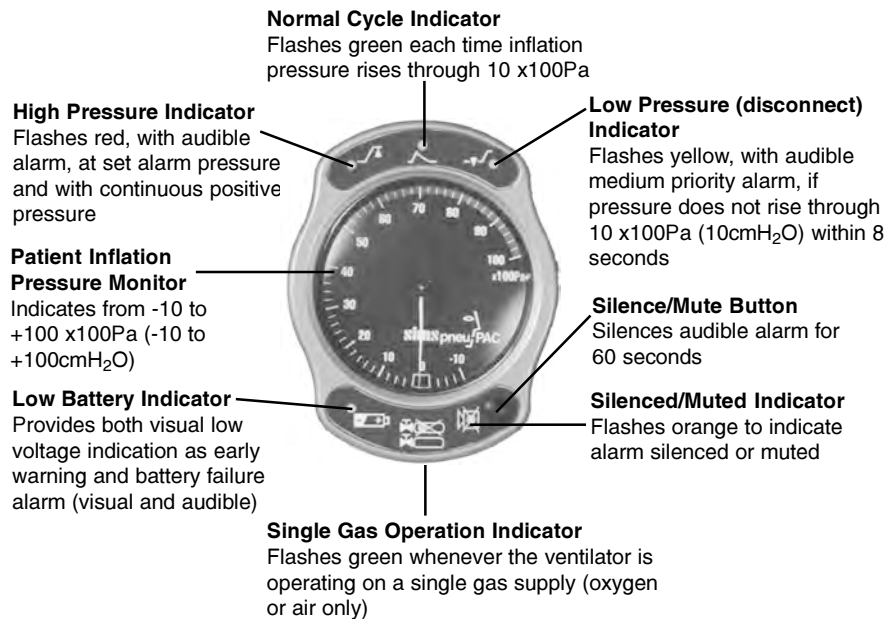
Weight: 3.75kg (excluding hoses and patient circuit)

Integrated alarm system

The babyPAC 100 ventilator incorporates a comprehensive integrated alarm system to help the user detect possible adverse changes of the patient's ventilation during CMV. The low pressure alarm gives warning of a possible circuit disconnection or reduction in ventilation volume and the high pressure alarm provides a visual and audible back-up to the pneumatically operated alarm. A separate LED indicator provides a visual reminder whenever the ventilator is operating on a single gas supply. The combination of distinctive audible and LED visual alarms ensures that the user's attention is attracted even in noisy or poor lighting conditions. Loss of battery power for the alarm is signaled to the user but will have no effect on the ventilation performance of the babyPAC ventilator, nor affect the mechanically operated alarms and protection systems.

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