

Vyaire 3100b High Frequency Oscillating Ventilator



The **Vyaire 3100B** is a High Frequency Oscillatory Ventilator. The 3100B is Base on the Same platform as the Vyaire 3100A. The 3100 B added additional features for adult patients. The Vyaire can be used on patients that weigh over 77 lbs (35kg). The system is used for patients that suffer from acute respiratory distress. The ventilator provides tools that can protect the lungs from damage while it is continuously expending pressure and volume to inflate the lungs. This helps to prevent the patient from going into respiratory failure.

Features

- Produces an active exhalation, which is essential at high-frequency respiratory rates to prevent air trapping that may occur with passive exhalation.
- Offers patented technology and a highly reliable, electromagnetically driven piston that distinguishes it from other high-frequency ventilators.
- Permits variable I:E ratios, which are desirable for managing ventilation.



Specifications

Dimensions

Height: 53.8 In (136.7 cm)

Width: 18.6 In (47.2 cm)

Depth: 11.4 In (29 cm)

Weight: 143 lbs (64.9 kg)

Bias Flow

0–60 liters per minute (LPM) Continuous, 15-turn control.

Resolution: 2.5 LPM.

Accuracy: $\pm 10\%$ of full scale at the following conditions: air or oxygen @ 70°F and 760 Torr.

Mean Pressure Adjust

Approximately 3–55 cmH₂O minimum range; Bias Flow dependent.

Resolution: 0.1 cmH₂O on airway pressure digital meter, 1-turn control.

Accuracy: Non-calibrated control knob.

Mean Pressure Limit

Automatic

Power

At 100% power, $\Delta P > 90$ cmH₂O max amplitude of proximal airway pressure.

Resolution: Graduated 10-turn locking dial, not calibrated in % power.

Frequency-Hz

3–15 Hz oscillator frequency.

Resolution: 0.1 Hz on digital meter, 10-turn control.

Accuracy: $\pm 5\%$ of full scale.

% Inspiratory Time

30–50% of oscillatory cycle.

Resolution: $\pm 1\%$ as read on digital meter

Accuracy: $\pm 5\%$ of full scale.

Set Max Paw Alarm Thumbwheel

0–59 cmH₂O mean airway pressure.

Resolution: 1 cmH₂O

Accuracy: Within ± 2 cmH₂O.

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