

pNeuton mini

Pneumatic Infant Transport Ventilation

pNeuton mini as Conventional Ventilator with Bunnell LifePulse HFJV

The Life Pulse HFJV is used in conjunction with the pNeuton mini, as a conventional infant ventilator.

The pNeuton mini has 4 functions to provide:

- blended gas for patient's spontaneous breathing (21 – 100%)
- regulates PEEP / CPAP
- supplementary IMV / manual breaths
- periodic dilation of airways to minimize atelectasis

How to Set Manual Breaths?

1. Set ventilation controls; **Peak Pressure (P_{INSP})** and **PEEP / CPAP**
2. Define Respiratory Rate and set **Inspiratory Time (T_I) control** and **Expiratory Time (T_E) control**
 - a. Minimum breath rate = 3 bpm
 - b. See chart below for Respiratory Rate reference table
3. Set **High Pressure Alarm (P_{ALARM})**
4. Switch **Mode** control to IMV + CPAP
 - a. pNeuton mini will wait for the expiratory time to expire as set on the (T_E) control to initiate the first breath.
 - b. pNeuton mini will then provide a breath as set by the (T_I) control and **Peak Pressure**. The longer the set Inspiratory Time, the higher the tidal volume.
 - c. When the set Peak Pressure level is reached the continuous flow through the patient circuit will be released through the expiratory valve.

Clinical Evaluation

Atelectasis = manage controls for Peak Pressure, and I-Time with respiratory rate.

Oxygenation = PEEP / CPAP is the best option to control oxygenation in patients with air leaks.

Respiratory Rate Chart: estimated breaths per minute based upon Insp Time and Exp Time settings.

Insp Time	Exp Time						
	0.25	2.00	4.00	6.00	10.00	15.00	20.00
0.25	120	27	14	10	6	4	3
0.40	92	25	14	9	6	4	3
0.60	71	23	13	9	6	4	3
0.80	57	21	13	9	6	4	3
1.00	48	20	12	9	5	4	3
1.20	41	19	12	8	5	4	3
1.40	36	18	11	8	5	4	3
1.60	32	17	11	8	5	4	3
1.80	29	16	10	8	5	4	3
2.00	27	15	10	8	5	4	3

NOTE: Interruptions in the HFJV pulses may occur with the delivery of conventional breaths at PIP higher than the set PIP on the HFJV.



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