

# LUISA<sup>®</sup>

## Life Supporting Ventilation with High Flow Oxygen Therapy

Item#  
**VNT31390**

The LUISA, with High Flow Therapy (HFT), is a home ventilator that offers all the potential benefits of HFT for patients that meet the clinical requirements for home ventilation. High Flow Therapy can deliver a high flow blend of air and oxygen, through a high-flow nasal cannula, which can improve oxygenation and decrease the workload of breathing in a wide array of patient populations.<sup>2</sup>

High Flow Therapy has been used in critical care, emergency departments, and is **now available to the ventilator patient at home.**

High Flow Therapy provides a flow rate that meets or exceeds a patient's inspiratory flow demand. This high flow rate can reduce the work of breathing and more closely match inspiratory demand through adjustable oxygen delivery and flow dependent clearance of carbon dioxide.<sup>3,4</sup>



### At A Glance

- Targeted tidal volume, volume-assured pressure support, auto-EPAP (TTV-VAPS-AE) with unique Comfort Settings
  - Sensitive Inspiratory and Expiratory Triggers with Inspiratory Lock Out Time
  - Three Target Volume Speeds
  - Pressure Increase/Rise and Pressure Reduction/Drop
  - Flow-Based Auto-EPAP
  - Auto-Rate algorithm
- High Flow Therapy for invasive and NIV patients
- Lightweight at ~ 8 lbs.
- Ease of Use programming
- 10" angled touchscreen with horizontal or vertical device positioning
- 2nd alarm language
- SpO2 and FiO2 monitoring capabilities
- Up to 18 hours battery life<sup>1</sup>

### High Flow Therapy For Your Ventilator Patients

Easy-to-use High Flow Therapy in LUISA has the potential to help manage nocturnally ventilated patients during the day with a less obtrusive oxygen flow delivery method that can potentially lead to:

- Enhanced oxygenation compared to conventional low-flow oxygenation<sup>4</sup>
- Improved work of breathing<sup>4</sup>
- Better secretion clearance<sup>4</sup>
- Increase in activities of daily living like eating, drinking and talking<sup>4</sup>
- Superior comfort and less anxiety or claustrophobia which could lead to better compliance<sup>5</sup>

The LUISA provides the flexibility of High Flow Therapy, for your patients that meet clinical requirements for home ventilation, invasive or non-invasive, with a flow range of 5-60 lpm.

LUISA offers all the benefits of High Flow Therapy for your ventilator patients in one device at home.



## Specifications

<b>Positions to operate device</b>	2	<b>Trigger expiratory</b>	5% - 95% of peak flow
<b>Number of programs/profiles</b>	4	<b>Target volume</b>	100 - 3000 mL
<b>Weight (lbs.)</b>	8.3 lbs.	<b>Target volume speed</b>	Variable, with three selectable values
<b>W x H x D</b>	11.8 x 5.1 x 8.2 in.	<b>Low pressure O<sub>2</sub> inlet</b>	Max. 30 l/min
<b>Display size</b>	10" angled touchscreen	<b>FiO<sub>2</sub> measurement</b>	Integrated, optional
<b>Min. V<sub>T</sub> of patient</b>	100 mL	<b>Battery time</b>	Up to 18 hours <sup>2</sup>
<b>Circuits (no adapters)</b>	<ul style="list-style-type: none"> <li>Leakage</li> <li>Single circuit with valve</li> <li>Double circuit</li> </ul>	<b>Internal battery service interval</b>	4 years or 500 charge cycles
<b>Modes</b>	TTV-VAPS-AE, HFT, S, ST, T, PSV, aPCV, PCV, P-SIMV, V-SIMV, aVCV, VCV, MPVp, MPVv, CPAP	<b>Alarm level</b>	59 - 87 dB(A) (depending on priority level)
<b>Modes with target volume</b>	TTV-VAPS-AE, S, T, ST, PSV, aPCV, PCV	<b>Noise level, dBA</b>	Measurement according to ISO 80601-2-72 <ul style="list-style-type: none"> <li>at V<sub>T</sub> ≥ 500 mL: 38,5 dB(A)</li> <li>at V<sub>T</sub> ≥ 150 mL: 37 dB(A)</li> </ul>
<b>IPAP pressure leakage circuits</b>	4 - 50 cmH <sub>2</sub> O	<b>Max. flow at 20 cmH<sub>2</sub>O</b>	>220 l/min
<b>IPAP pressure valve circuits</b>	4 - 60 cmH <sub>2</sub> O	<b>Alarm mute</b>	120 sec
<b>Ti min</b>	0.5 sec	<b>Boot time</b>	<ul style="list-style-type: none"> <li>12 sec when on battery</li> <li>1 sec when plugged in</li> </ul>
<b>Ti max</b>	4.0 sec	<b>Data storage</b>	<ul style="list-style-type: none"> <li>30 days detailed</li> <li>365 days statistics</li> </ul>
<b>Frequency</b>	2 - 60 bpm	<b>Connectivity</b>	Cellular modem or USB
<b>Trigger inspiratory</b>	Auto, 1 - 10		

## Accessories and Replacement Parts

<b>VNT31404</b>	Movair Exhalation Module - Disposable
<b>VNT31569</b>	Movair Power Supply
<b>VNT27027</b>	Movair Power Cord
<b>VNT30669</b>	Movair Oxygen Connection Nozzle
<b>VF008-12</b>	Pollen/Fine Filters 12/PK
<b>VF008F-2</b>	Air/Coarse Dust Filters 2/PK
<b>VNT31417</b>	Movair Protective Bag
<b>VNT31440</b>	Movair Accessories Bag
<b>VNT31414</b>	Movair USB Flash Drive
<b>HFN001AS</b>	Humidoflo High Flow Nasal Cannula Adult Small 10/case
<b>HFN001AM</b>	Humidoflo High Flow Nasal Cannula Adult Medium 10/case
<b>HFN001AL</b>	Humidoflo High Flow Nasal Cannula Adult Large 10/case

## References

- Utilizing 6 hour internal battery plus two optional external batteries at 6 hours each.
- Dysart, K. et al. Research in High Flow Therapy: Mechanisms of Action. *Respiratory Medicine*. 2009. 103(10):1400-5.
- Lodeserto, F. et al. High-Flow Nasal Cannula: Mechanisms of Action and Adult and Pediatric Indications. *Cureus*. 10(11):e3639.
- Drake, M. High-Flow Nasal Cannula Oxygen in Adults: An Evidence Based Assessment. *Ann Am Thorac Soc* Vol.15(2):145-155.
- Masclans, J. et al. The Role of High-Flow Oxygen Therapy in Acute Respiratory Failure. *Medicina Intensiva*. 2015; 39:505-515.

**To order or for more information**

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