

LUISA[®]

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.²

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.^{3,4}



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 life¹

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 oxygenation⁴
- Improved work of breathing⁴
- Better secretion clearance⁴
- Increase in activities of daily living like eating, drinking and talking⁴
- Superior comfort and less anxiety or claustrophobia which could lead to better compliance⁵

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

Positions to operate device	2	Trigger expiratory	5% - 95% of peak flow
Number of programs/profiles	4	Target volume	100 - 3000 mL
Weight (lbs.)	8.3 lbs.	Target volume speed	Variable, with three selectable values
W x H x D	11.8 x 5.1 x 8.2 in.	Low pressure O₂ inlet	Max. 30 l/min
Display size	10" angled touchscreen	FiO₂ measurement	Integrated, optional
Min. V_T of patient	100 mL	Battery time	Up to 18 hours ²
Circuits (no adapters)	<ul style="list-style-type: none"> Leakage Single circuit with valve Double circuit 	Internal battery service interval	4 years or 500 charge cycles
Modes	TTV-VAPS-AE, HFT, S, ST, T, PSV, aPCV, PCV, P-SIMV, V-SIMV, aVCV, VCV, MPVv, MPVv, CPAP	Alarm level	59 - 87 dB(A) (depending on priority level)
Modes with target volume	TTV-VAPS-AE, S, T, ST, PSV, aPCV, PCV	Noise level, dBA	Measurement according to ISO 80601-2-72 <ul style="list-style-type: none"> at V_T ≥ 500 mL: 38,5 dB(A) at V_T ≥ 150 mL: 37 dB(A)
IPAP pressure leakage circuits	4 - 50 cmH ₂ O	Max. flow at 20 cmH₂O	>220 l/min
IPAP pressure valve circuits	4 - 60 cmH ₂ O	Alarm mute	120 sec
Ti min	0.5 sec	Boot time	<ul style="list-style-type: none"> 12 sec when on battery 1 sec when plugged in
Ti max	4.0 sec	Data storage	<ul style="list-style-type: none"> 30 days detailed 365 days statistics
Frequency	2 - 60 bpm	Connectivity	Cellular modem or USB
Trigger inspiratory	Auto, 1 - 10		

Accessories and Replacement Parts

VNT31404	Exhalation Module - Disposable
VNT31569	Power Supply
VNT27027	Power Cord
VNT30669	Oxygen Connection Nozzle
VF008-12	Pollen/Fine Filters 12/PK
VF008F-2	Air/Coarse Dust Filters 2/PK
VNT31417	Protective Bag
VNT31440	Accessories Bag
VNT31414	USB Flash Drive
HFN001AS	Humidoflo High Flow Nasal Cannula Adult Small 10/case
HFN001AM	Humidoflo High Flow Nasal Cannula Adult Medium 10/case
HFN001AL	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.
- Maslans, J. et al. The Role of High-Flow Oxygen Therapy in Acute Respiratory Failure. Medicina Intensiva. 2015; 39:505-515.

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