



THE FUTURE OF HUMIDIFICATION



Winner of the prestigious R&D 100 Award for global innovation

The Hydrate OMNI™ humidifier is a leap forward in the provision of humidity for mechanical ventilation, high flow gas therapy and tracheotomies.

Based on novel technology*, the Hydrate OMNI™ provides the clinician with unprecedented control of humidity in a small, lightweight and disposable package.

The Hydrate is the only humidifier that regulates, displays and monitors humidity. No more guessing; no more hoping that humidity is enough based on temperature readings. Not only do you know the humidity; you can customize it for your patient in virtually any application - mechanical ventilation, high flow gas and tracheotomy patients.

And there is no fear of contamination since everything that water touches is single patient use. Plus, the intelligent software constantly monitors everything from gas flow to gas humidity to the water bag's volume.

Tomorrow's technology today. Control like never before.
Welcome to the future.



Hydrate

www.HYDRATEinc.com

*Licensed from Vapore, Inc (www.vapore.com)

MECHANICAL VENTILATION

Studies today are showing that current humidification systems with heated wire circuits can deliver insufficient humidity, yet non-heated wire circuits allow condensation and rainout.^{1,2} The Hydrate OMNI™ humidification system ensures optimal humidity and, because of its compact size and low weight, can be positioned immediately proximal to the patient in the inspiratory limb – eliminating rainout.^{3,4} Now you can set the humidity level you are delivering.



HIGH FLOW GAS THERAPY (HFG)

The Hydrate OMNI™ enables delivery of flows up to 40 L/min through a nasal cannula in comfort. Hydrate takes this new therapy to a new level in patient tolerance because the clinician can control the humidity and thus reduce or eliminate rainout ‘spraying’ of the patient. No bulky tubing, no special gas supply lines, no heated wires – just standard oxygen tubing. And there is a C-Force™ designed for tracheotomy patients.

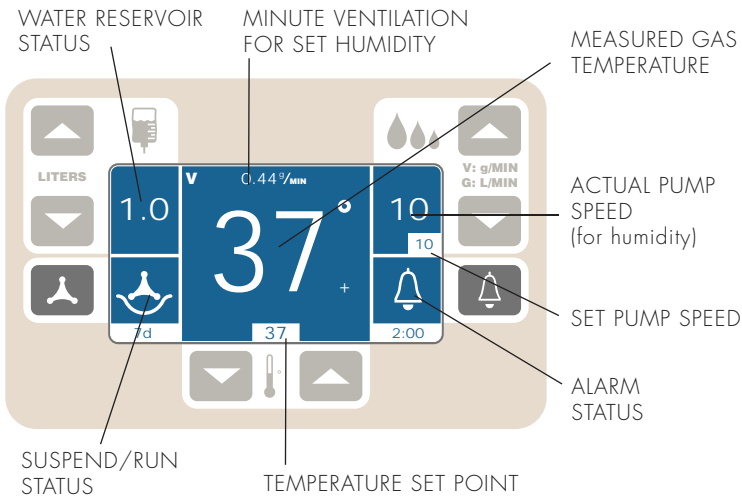


C-FORCE™ DISPOSABLE UNIT

| | |
|--------------------------|----------------------------|
| Weight | 52.4 gm |
| Size | 6" length x 1 7/8" dia |
| Max duration of use | 14 days |
| Flowrate (100% RH) – min | 6 L/min |
| – max | 50 L/min (V); 40 L/min (G) |
| Absolute humidity range | 33 - 44 mg/L @ 37°C |

| | |
|-------------------------------------|--------------------------------|
| Temp range (not avail at all flows) | 33°C – 41°C |
| Start up (to 37°C) – cold | 5 min (includes prime) |
| – warm | < 2 min |
| On/Off response time | < 2 sec |
| Water supply | sterile, distilled water (bag) |
| Suspend times, auto resumption | 2, 5, 10, 15 min |

HYDRATE OMNI “V” DISPLAY



The C-Force™ is single patient use. It provides the phase transition from water to vapor and adds the heat to the gas using a small, porous disk with a wafer heater. The water feed and heater are controlled by the software in the Hydrate OMNI™ controller based on the clinician’s input.

References

1. Lellouche F, Taillé S, et al. *Influence of Ambient and Ventilator Output Temperatures on Performance of Heated-Wire Humidifiers.* Am J Respir Crit Care Med 2004;170:1073–1079
2. Pelosi P, Chiumello D, et al. *Performance of Heated Wire Humidifiers: An in vitro study.* J Crit Care 2007 Sep;22(3):258-64
3. Tiffin N, Weinstein L. *Current High Flow Gas Humidification Systems Compared to a Novel Humidifier (PARI Hydrate™).* Int Car Med S2 Sept 2007 33:S141 (#0541)
4. Tiffin N, Clary ES. *Performance of a Novel Humidification Device in Mechanical Ventilation.* Int Car Med S2 Sept 2007 33:S140 (#0536)



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