

PulseDose® Heated Humidification

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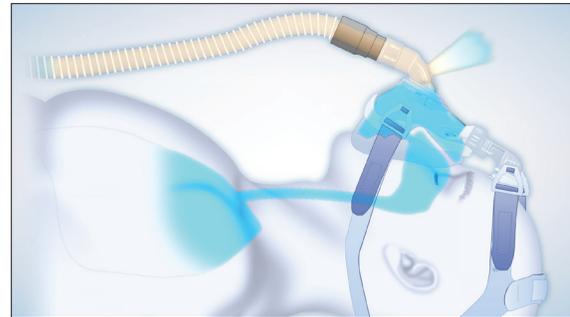
**Pulse
Dose®**
HUMIDIFICATION

From the innovators of PulseDose® Oxygen Conserving technology comes patent-pending PulseDose Heated Humidification. By applying the same premise of pulsed oxygen delivery, the PulseDose humidifier is able to deliver humidified air only when the patient requires it, thus dramatically minimizing rainout that is associated with current heated humidifier solutions on the market today.



Inhalation

Humidifier air is delivered to patient during inhalation.

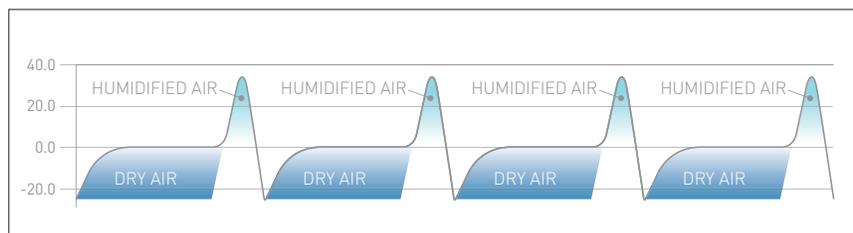


Exhalation

During exhalation, dry, non-humidified air is delivered to manage rainout.

How It Works

During a normal breath cycle, a patient inhales approximately 33% and exhales 66% of the time. A predictive algorithm based on this natural breathing pattern ensures a consistent bolus of humidified air starts to be delivered at the leading edge of inhalation. When the patient begins to exhale, a valve silently rotates to deliver room air to clear the tube of excess humidification.



Key Benefits

- Dramatically reduces rainout in the tubing
- Able to use standard tubing
- Lower power consumption than heated tubes or standard humidification
- Uses less water than other humidification systems
- Quiet operation

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Rainout Reduction

PulseDose technology provides rainout protection throughout the night. The below testing* shows PulseDose technology dramatically reduces water in the tube compared to Standard humidification and Heated Tube technology. Standard humidification and Heated Tube technology both showed rainout in the tube and increased weight of the tube quantifying how much moisture remained in the tube.

	Standard Humidification	Pulse Dose Humidification	Heated Tube Humidification
Weight in grams of water in tube after 4 hours	5.03g	0.16g	2.57g
Rainout Observed	Yes	No	Yes

*Testing was conducted over 4 hours comparing Standard humidification, PulseDose humidification, and Heated Tube humidification in 20 degC ambient temperature conditions

Power Consumption

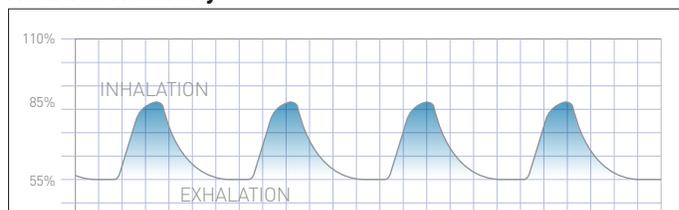
PulseDose humidification not only uses less power than heated tubes, but actually uses less power than standard humidification. Bench top testing indicates an average of 10-15% reduction in power consumption compared to standard humidification. Not only does this provide electricity savings at home, but also less draw on batteries for longer run times.



Humidification

PulseDose humidification provides more humidification to the patient than standard humidification. During bench top testing**, it was demonstrated that PulseDose is able to provide more efficient humidification via bolus delivery of humidified air because it does not need to limit the humidification to minimize rainout.

Relative Humidity



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**Bench testing compares IntelliPAP 2 Standard Humidification to PulseDose humidification and heated tube humidification.

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