



Humidification and Climate Control

It's well established that effective humidification in CPAP therapy improves patient compliance.^{1,2} Humidification reduces symptoms of dry throat and nasal congestion, can reduce mouth leak, and helps CPAP users feel more comfortable with their therapy. But many factors impact the users' experience of humidification. Water temperature, amount of humidity delivered, pressure level, environmental changes—all of these can affect users, for better or worse.

In the H5i,[™] we've created a system that gives you control over the factors that make the difference in humidification. We call it Climate Control.

What is Climate Control?

Climate Control combines an intelligent temperature-stabilizing algorithm with our state-of-the-art ClimateLine[™] tube to dynamically manage humidification according to real-time changes in the sleeping environment.



Why does it matter?

Most humidifiers are blind to the changing environment. Arbitrary temperature and humidity settings can cause a number of challenges, including insufficient humidification delivery and rainout.



How does it work?

The H5i with Climate Control automatically adjusts to pressure changes, environmental changes and mouth leak in order to deliver the optimal level and temperature of humidity, and prevent rainout.

Climate Control measures and calculates five key variables:

- Ambient temperature of the room
- Ambient humidity of the room
- Total system airflow
- Real-time humidity output of the H5i
- Air temperature at the mask

Why measure air temperature at the mask?

Environmental changes are not the only factors that impact humidity. Mouth leak and pressure changes can also affect the humidity at the mask. By measuring temperature at the mask, the system can quickly adapt to the most subtle fluctuations that often go undetected while maintaining the optimal therapy humidification.

S9[™] | Series
More. Comfort.

S9™ Series More. Comfort.



The value? Four and more

Research shows that patients feel most comfortable at humidity and temperature levels that standard humidifiers can't deliver. A recent study found that ResMed's S9 with Climate Control significantly reduced rainout complaints and relieved drying issues, leading to average daily usage increases of up to 30 minutes.³

By improving humidification comfort and reducing rainout, the S9 with Climate Control helps your patients accept therapy and get a good night's sleep.

Combined with its whisper-quiet motor, Easy-Breathe waveform and stylish user-friendly design, ResMed's S9 brings you the four innovations you need to help your patients sleep through the night comfortably and feel the benefits of healthy sleep.

Give your patients a system that delivers more. **Four and more.**

Easy to use, adjust and clean

To use Climate Control, simply choose the desired temperature setting and it will automatically adjust to maintain optimal humidification. A large dial and intuitive interface give users the ability to customize their settings as desired. The H5i water tub is dishwasher cleanable and even suitable for multi-patient multi-use.

PRODUCT CODES

ClimateLine Tubing	36995
H5i Cleanable Water Tub	36800
H5i Water Tub	36802
H5i with Cleanable Tub	36901
H5i with Standard Tub	36900
S9 AutoSet™ + H5i & ClimateLine Tubing	36021
S9 Elite™ + H5i & ClimateLine Tubing	36023
S9 Escape™ + H5i & ClimateLine Tubing	36021
S9 Escape Auto™ + H5i & ClimateLine Tubing	36022

TECHNICAL SPECIFICATIONS

Materials

H5i cleanable water tub:
Injection molded plastic, silicone seal and stainless steel heater plate

Cleanable tub

Injection molded plastic, stainless steel and silicone seal (unless otherwise specified)

Disposable tub

Injection molded plastic, aluminum and elastomer seal (unless otherwise specified)

Capacity

380 mL

Single-patient multi-use

Yes

Multi-patient multi-use

Yes

Cleaning methods

Dishwasher, high level thermal or chemical disinfection

Warm-up time

30 min

Cool-down time

10 min

No. of parts

4

Distilled water

Optional

Pressure and flow limits

Max 25 cm H₂O

Humidification duration

At least 8 hours (tested to 14 hrs at 10 cm H₂O, 35 L/min)



¹ Massie et al. Chest 1999 ² Rakotonanahary et al. Chest 2001 ³ Study details at www.clinicaltrials.gov ID NCT01013207

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