

FEEL FREE



**Enlarged original picture
of aerosol mist with droplet
size from 5 μm**

Visualization with support of
Prof. Dr. Patrick Scheunemann
Steinbeis Transferzentrum Meschede



Ultrasonic nebulizer for
humidifying the breathing air
Model U-3003-S



SCHULTE-ELEKTRONIK GMBH
MEDICAL TECHNOLOGY

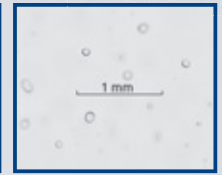
BY INHALATION HEAL - RELIEVE - PREVENT

Ultrasonic nebulizer Model U-3003-S

Sterile aerosol also reaches
the lower respiratory tract
(alveoli).



U-3003-S
Ultrasonic mist



For comparison:
Droplets from nasal spray

Aerosoltherapy

Ultrasonic nebulizers are developed for humidification through nebulizing sterile water and can be used for aerosol therapy according to physicians' advice.

Hygiene First

Standard ultrasonic nebulizers are often non-sterile, posing a high risk of infection. Closed sterile water systems for the U-3003-S prevent such risks. Sterile water solution flows automatically from customized, disposable cups or drip-fed systems. Completely hygienic is also the one-of-a-kind aerosol heater which works from the outside, making extra sterilization unnecessary.

Perfect for hospitals and private practice

The U-3003-S is particularly beneficial for hospital use. It produces a very high quality mist with extremely small aerosol particles. These particles are able to reach deep into the respiratory track.

The "S-class" of nebulizers

The U-3003-S is easily adjusted with push buttons, enabling the user to select the correct mist and air mixture as well as the aerosol temperature. There are several settings available and the operating time can be adjusted from 15 to 60 minutes or can be set to permanent use.



Technical Data

Nebulization rate	0,5 – 3 ml water per minute
Aerosolspectrum	1 – 7 µm (65 %), 1 – 5 µm (45 %)*
MMAD	5,3 µm*
Frequency	1,68 MHz
Flow	1,5 – 8 liter per minute (bacteria filter)
Operation Timer	15 – 60 minutes, continuous operation
Mains voltages	230 V AC, 50 Hz
Form of operation	continuous operation
Protection class	I, Typ B
Protection form	IP 21
Warranty	24 month

* All statistics from mist/air level 3.

Subject to change without notice

The device stores the preset information for density and airflow and starts the next session again with those stored parameters.

The use of high quality material such as stainless steel and hardened glass ensures that the U-3003-S looks like new, even after years of service.

Low filling levels in the nebulizing chamber or transducer head are alerted by an acoustical and optical signal.

The intelligent "Quarz-Protect" function protects the unit against damage in case it is accidentally switched on without the appropriate liquids level.

The modern micro-controlled high frequency nebulizer is an investment for the future, and is available as a table top device or with a 5-wheel stand.



Illustration contains optional
features (indirect aerosol heater,
sterile water system, 5-wheel-stand)

Highlights

- "Quarz-Protect" function
- low liquid alarm
- empty chamber alarm
- timer
- splash-proof housing
- maximum security and hygiene
- innovative indirect aerosol heater
- modern timeless design
- indirect nebulization
- practical disposable water units