

# ULTRASONIC NEBULIZER ULTRASONAT 810 (WITH HEATING)



## ULTRASONIC NEBULIZER U810



is a high-performance professional ultrasonic nebulizer designed for the administration of inhalation solutions and drugs by inhalation. Thanks to its robust design, easy operation and ergonomics, it has a wide The ergonomics and ergonomics of the ergonomics allows for a wide range of applications in all medical departments dealing with the treatment of upper and lower respiratory tract.

Used in clinical and health care in the following situations:

- surgery, pre- and postoperative prevention of infections (pneumonia)
- intensive care units, humidification of inhaled air-air/O<sub>2</sub> mixture
- internal medicine - specific and non-specific lung diseases, pneumonia, bronchial asthma, bronchiectasis, acute, chronic and superinfectious bronchitis
- pediatrics - mucoviscidosis, pseudocroup, pneumonia, bronchitis, laryngitis
- ENT - humidification of inhaled air (tracheotomy), laryngitis
- balneology - due to precise dosage, better application and effectiveness in classical indications
- pulmonology - aerosol administration of irritants

Possibility of precise dosing of drugs using the application tray.





The ULTRASONAT 810 operates with a maximum frequency of 1.7 MHz and a high frequency output power of about 32 W. Using a piezoceramic converter, electrical energy is converted into mechanical energy. The resulting vibrations create the smallest particles in the nebulization chamber in the liquid, ranging in size from 0.5 to 6  $\mu$ m. After switching on the instrument, the transducer needs about 15 seconds for automatic calibration. With the automatic calibration of the transducer and the large volume of the nebulization chamber, it is possible to subsequently nebulize more than 500 ml of liquid without the use of additional reservoirs. This corresponds to 3-4 hours of nebulization without refilling the system or up to 8 hours with reduced intensity.

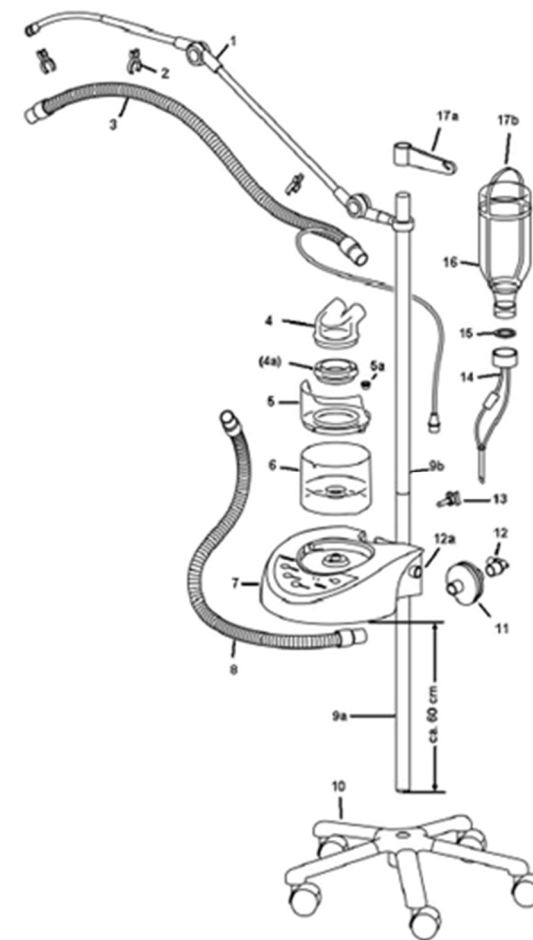
The electronic idle protection replaces the fail-safe float switch. The unit can be operated in continuous mode or the desired time can be set on the digital timer using the +/- buttons in the range of 1-99 min. After the set time has elapsed, the unit will automatically switch off.

There are optimally routed hoses in the device; therefore, it is possible to route the ventilation hoses in the housing. Only the aerosol hose is visible on the instrument. There is a drainage around the nebuliser chamber to drain dripping water. A coarse air filter and a bacteria filter (CE marked) guarantee a bacteria-free mist and thus the highest possible hygienic safety. The aerosol can also be heated using a heating system that is built into the patient hose (optional accessory).



## Technical parameters

▪ Instrument protection class	I	
▪ Supply voltage	220-240/50-60	V/Hz
▪ Performance	approx. 85	W
▪ Current output	approx. 0,4	A
▪ Nebulization performance max.	approx. 4,5	ml/min
▪ High Frequency Output	approx. 32	W
▪ Frequency of inverter max.	approx. 1,7	MHz
▪ Particle size	approx. 0,5 - 6	µm
▪ Temperature of nebulization	max. 43	°C
▪ Surrounding temperature	10 - 30	°C
▪ Storage temperature	10 - 40	°C
▪ Chamber volume	max. 625	ml
▪ Weight (device only)	approx. 4	kg
▪ Weight of the set	approx. 18	kg
▪ Dimensions (WxHxD)	300 x 250 x 300	mm
▪ Overall height (including 5 leg stand)	approx. 1.200	mm



The device can be supplemented with a compact professional **AIR/GAS MIXER**.



#### Technical parameters AIR/GAS MIXER

▪ O2 concentration setting	21 % až 100	%
▪ Integrated flowmeter	with range 0 to 16	l/min
▪ Gas interruption warning system	air or oxygen	
▪ Inlet pressure for air and oxygen	3,5 až 6	bar (50 psi)
▪ Output connector	universal	
▪ Reduction for output	22/15	mm
▪ Possibility of fixing	on EURO rail 10x25 or mobile stand	mm



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