

VibraSonic

Pressure Surge- Inhalation System

SPECIFICATIONS

Dimensions (HxWxD) 200x530x430mm
Weight (basic unit) 10,4 kg
Operating temperature +15 - +30°C

Power supply 230V / 50Hz
Power input 190 VA

Protection class / IEC 601 I / B
Protection type IP20
Classification enclosure IIa

Therapy time adjustable 1-15min

HF-Frequency 1,7 MHz
Nebulizer performance max. 200ml/h
(infinitely variably)

Pressure pulse amplitude approx. 10-55mbar
(infinitely variably)

External compressed air supply 0,9 – 1,1bar

CE 0044

Subject to change without notice.
March 2006

Your representative:

ORDER-DATA

VibraSonic, basic unit, cpl.	100-0000
Ultrasonic cup, autoclavable	100-0200
Patient hose, autoclavable	531-2990
Connecting hose, autoclavable	531-2995
Drug-System, autoclavable	100-0250
Drug cup, 10pcs.	014-2930
Nose adapter, adult, Duran	042-2250
Nose adapter, children, Duran	042-2220
Mouth piece	650-0041
HEYER Cleaning Lotion for Inhalation Units, 1l	045-3950
Patient hose, autoclavable, with integrated heating module	198-2001
HEYER Nasopharyngeal shower	193-0000
HEYER Hand nebulizer	610-0580
Mounting for VibraSonic, rotatable and traversable, height adjustable	500-9560
Mounting for VibraSonic, rotatable and traversable, fixed height by assembly	500-9595



VibraSonic

Pressure Surge- Inhalation System

HEYER 
MEDICAL AG

CARL-HEYER-STR. 1-3
D-56130 BAD EMS / GERMANY
PHONE: +49/2603/791-3 - FAX: +49/2603/70424
E-MAIL: INFO@HEYERMEDICAL.DE
INTERNET: WWW.HEYERMEDICAL.DE

HEYER 
MEDICAL AG

VibraSonic

Designed Competence



A unique treatment of the respiratory system is the inhalation of aerosols (nebulization through ultrasound) with simultaneous application of an aerosol vibrator and/or pressure surge application.

This may be used for aerosol therapy of the sinus paranasal, eustachian tube and the tympanic.

An aerosol vibration in continuous mode is possible, however generally used only for the treatment of sinusitis.

The aerosol will be inhaled by patient with the help of a nose adapter, closing the nostrils.

The Heyer VibraSonic enables a therapy of different infections in almost all areas of the respiratory system. The spectrum reaches from the treatment of the upper airways (especially sinus paranasal and the auditory tube) up to the treatment of the lower respiratory system.

That makes an effective therapy of the infection of the eustachian tube and the ostias of the paranasal sinuses possible.

This therapeutic effect will be achieved either by the alternative or by combined application of the three operating principles: ultrasonic nebulizer, aerosol vibration and pressure surge application.

Methods of treatment:

- The aerosol will be distributed throughout the nose and especially the sinus paranasal, using the vibration method
- The combined use of positive pressure and aerosol vibration supports an opening of the ostia into the cavities connected to the nasopharyngeal cavity so that the aerosol can penetrate more easily
- During the swallow act of the patient the eustachian tube will be actively opened, so the aerosol vibration can become also effective in that area.

The repeated application for the treatment of chronic obstructions of the eustachian tube has been proved as being favorable.

Unique Therapy System, Easiest Application

Possible treatments

With the VibraSonic an ultrasonic nebulization is possible with

- aerosol vibration and positive pressure (with nose adapter)
- aerosol vibration without positive pressure (with nose adapter)
- without aerosol vibration and without positive pressure (with nose adapter or mouth piece)

according to whether the aerosol has to treat (a) the mucosa of the upper airways, particularly those of the sinus paranasal, the eustachian tube and the tympanic or (b) the mucosa of the nose, the pharynx or (c) the lower airways. Depending upon the scheduled therapy individual treatments can be selected and/or combined. For the lower airways ideally ultrasonic nebulization. For the upper airways you would choose a combination of ultrasonic nebulization together with aerosol vibration. Last but not least for the treatment of the sinus paranasal and eustachian tube a combination of all three should be chosen.



Ultrasonic aerosol:

The droplet size starting from 0,5 micron makes the penetration of the drugs possible into smallest openings. The high aerosol density is transporting sufficient drug quantity.



Pressure surge:

The positive pressure is forcing the aerosol into the sinus paranasal and eustachian tube. The pressure force supersedes the opening resistance of these compartments.

Aerosol vibration:

By an overlaid oscillation of 100Hz the drug particles will be provided with increased movement dynamics. Thereby a deeper penetration and deposit of the nebulized particles into the smallest branches are ensured.



Joining adapters:

The nose joining adapters have been especially designed particularly for the pressure support inhalation. They lock the nose opening so closely that aerosol, pressure and aerosol vibration penetrate the respiratory system entirely.