\triangle





called frequency modulation, even highly sensitive surgical instruments are gently - yet thoroughly- cleaned without damaging the instruments.> b: Def. ultrasonic cleaning: Sending ultrasonic waves through the cleaning solution generates hundreds of thousands of small bubbles that grow until they implode. The local cavitations resulting from these imbers that virtually off surfaces. Since are all that implod cleaning is completed. ties that would be impossible to reach by hand or with a spray nozzle. 3. The innovative technology is remarkable, but the process is simple. The Med is a user-friendly device performing all the steps automatically, making manual intervention or supervision unnecessary. Resulting in cost and labor time savings. **4.** Microscopic cavitation bubbles and specially formulated eco-friendly solutions seek out every crease and crevice, eliminating stubborn or difficult-to-re-

Def.: Med - noun [med] neu-

tral (2017) pronunciation: 'M & d' 1. A new (r)evolution in the ultrasonic cleaning of medical instruments. 2. a: An exceptional pre-cleaning

device taking the traditional ultra-

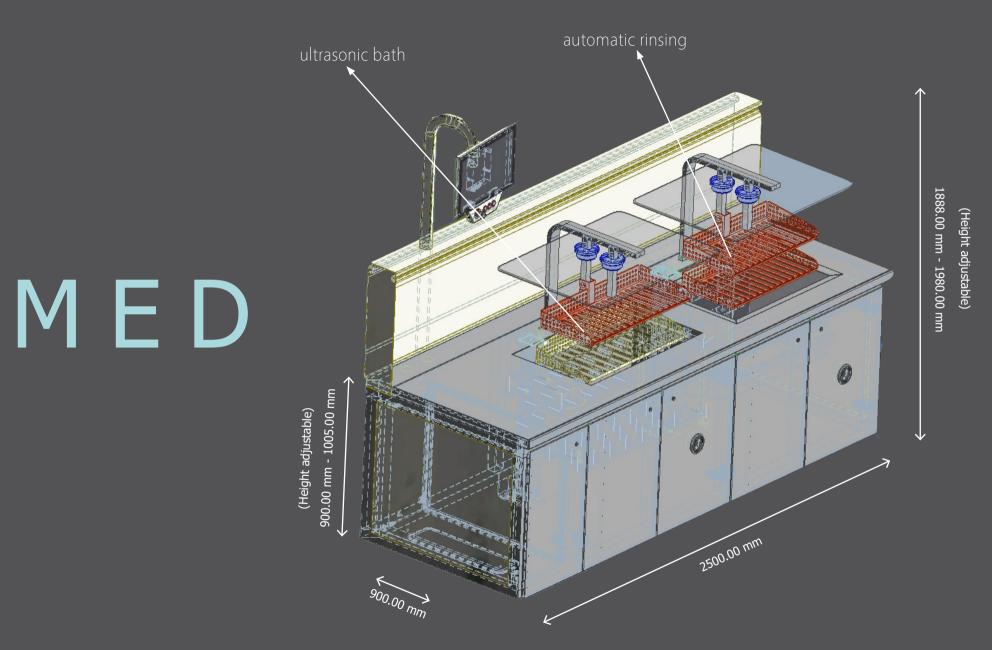
sonic cleaning to the next level with new approaches, such as adjustable frequencies and triple-side irradiation. <Thanks to this advanced technology,

ach contaminants in the process.

5. Designed & manufactured in Belgium by UltraZonic nv: a Belgium based hi-tech R&D and manufacturing company specialized in infection control technologies.

6. Unique in the world.

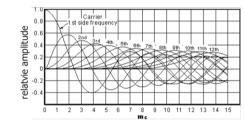
TECHNICAL AND PERFORMANCE SPECIFICATIONS FOR MEDICAL EQUIPMENT

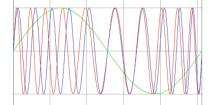


lodel offered	UltraZonic MED TUSAVS
lanufacterer	UltraZonic nv
ountry of origin	Belgium
ems description	Automated pre-cleaning station for surgical instruments
egulatory compliance	MDR CLASS I 2017/745 Annex VIII
pray tank water usage	Usage of 20 nozzles: 59 l/min at 3bar
Itrasonic tank water usage	100l tank capacity
Operation conditions	20% - 80% non condensing 19°C - 27°C Indoor use only
Cold water supply Temperature Connection Water pressure Water quality Flow Varm water supply Temperature Connection Water pressure Water quality	<18°C Ø 22mm tubing with hand valve 2,5 - 3,5 bar According to guideline R4104 < 6°Dh Approx 45 - 55l/min 45°C - 60°C Ø 22mm tubing with hand valve 2,5 - 3,5 bar According to guideline R4104 < 6°Dh
. Flow	Approx 45 - 55l/min
lax. pressure difference:	1,5 bar between hot and cold water to optimise thermosatic valve function
sir supply	
. Minimum flow . Air	40l/min 3/8" female thread 4 - 6 bar
Prain Prain	1 x Ø 50mm - 2" BSP
Electric supply . Type	3 x 380VAC - 20A - 50Hz or 230VAC - 32A - 50/60Hz
. Fuse/earth leak protection . Power consumption	20A - 32A / 30mA Max. 8000W
leating	2600W
Jitrasonic frequency	27 kHz LF and/or 80 kHz HF
Ultrasonic transducers	Triple-side irradiation
onic transducers	(bottom + 2 sides)
Ultrasonic effective	2600W
Jltrasonic peak power	5000W
ize (custom made possible)	2500mm x 900 mm x 1888 mm
Veight	670 kg
loise emission value	61dB

FLEXIBLE FREQUENCY MODULATION

- Frequency can be modulated from 27 kHz LF and/or 80 kHz HF.
- Cleaning strength is adjusted to match the requirement of the items being processed.
- No risk of damaging highly sensitive instruments (such as Da Vinci instruments) due to wrong frequency approach
- Minimizes standing waves and ensures an almost homogeneous ultrasound intensity distribution.





CLEANING TECHNOLOGY LIKE NEVER SEEN BEFORE

Thanks to the **frequency modulation**, contamination (bones blood proteins and other) is **removed in only 3 minutes** Even in **hard-to-reach areas** such as corners and lumens



■ Performs **all reprocessing steps 100% automatically.** Including automated pre-rinsing, making the entire procedure hands-free.

- Highly protected cleaning procedure: safety alarm goes off if prescribed cleaning procedure is incorrect.
- Specific frequency approach for each instrument.
- Cleaning detergents can be significantly reduced because of the very high cleaning activity of the **acoustic broadband spectrum**.
- Cleaning time is 70% shorter compared to traditional ultrasonic cleaning technology.
- No supervision or manual intervention needed. User-friendly.
- Advanced software system automatically controls entire cleaning cycle.

ONE DEVICE: MANY ADVANTAGES



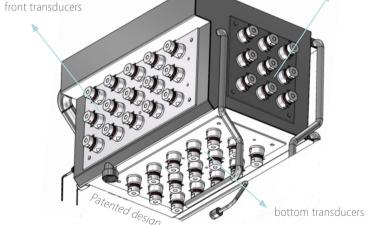
STATE-OF-THE-ART DESIGN



- Pneumatic system: automatic opening and closing of the lids as well as for lifting instruments baskets out of the tank.
- **Ergonomic design**: Easy-to-use touchscreen control panel with rotatable arm. Completely height-adjustable.
- Made of stainless steel 304, manufactured out of the high quality materials. The ultrasonic tank is fabricated out of 316 stainless steel.



side transducers



INIOUF 3-DIMENSIONAL ULTRASONIC APPROACH

- Triple-side irradiation (transducers attached on the three sides)
 Intensive ultrasonic field
- Extremely efficient and powerful electronics and transducer coupling to ultrasonic bath

PROGRESSIVE ULTRASONIC CLEANING





- All cleaning cycles are performed safely and correctly, procedure after procedure. If not, an alarm is emitted.
- Instant increase in production speed and employee efficiency.
- Includes automated degassing, sweeping and top skimming.
- Prolonged operating life of the instruments.





