

UNISONICS

DATA AND SPECIFICATIONS

ULTRASONIC CLEANER MODEL ST27M

APPLICATIONS:

The Unisonics ST range is a single chamber device used to clean surgical instruments and other hardware with sonic energy in a heated water / detergent solution. It is designed for use in surgery reprocessing areas, central processing departments and laboratories.

FEATURES:

- Solid stainless steel construction (tank & jacket)
- Mechanical timer.
- Sweep frequency.
- 600 watts of ultrasonic power.
- Polyester coated transducers to prevent moisture contamination and maintain high efficiency levels.
- Stainless steel lid plus basket (standard in all models).
- Insulation.
- Outlet drain.
- Cooling fan.
- Overflow apron.
- EMC tested and approved.

SONIC CLEANING CHAMBER:

Free Standing Cabinet

Overall Size	(External)	Length 650mm Width 450mm Height 600mm
Chamber Size	(Internal)	Length 450mm Width 300mm Depth 200mm
Basket Size		Length 400mm Width 260mm Height 150mm
Maximum Load		10kg
Chamber Volume		27 Litres
Operating Liquid capacity		20 Litres

APPROVALS:

AS/NZS3760:2001

AS/NZS2064:1997-EMI Test

AS3100-1994-Electrical Safety

Certificate of Conformity No:E990002-(C-Tick)

Certificate for inclusion of medical device – Class 1 (T.G.A.)

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CONSTRUCTION:

All exterior surfaces are 0.9mm in 304 stainless steel.

The ultrasonic chamber is fabricated from 304 stainless steel and is 1.6mm in thickness.

It is heat insulated and sound deadened.

All integral plumbing is stainless steel.

Basket is stainless steel mesh.

Sonic energy is provided by six piezoelectric stack transducers bonded to the tank bottom with a frequency of 40 kHz.

Maximum operating temperature should not exceed 60 degrees Celsius so as to maintain reliability and maximize efficiency.

Power is supplied by 600 watts of solid-state circuitry, which is air-cooled.

CONTROLS:

A mechanical timer control is located at the bottom front of the unit and should be set as per operating instructions (refer operation page).

A circuit breaker is also fitted for circuit protection and personal safety.

The mains plug / socket outlet is located on the right side of the unit which allows the operator to remove the connection when the cleaner is not in use.

A fan is located on the opposite side to allow cross cooling and ventilation of power circuitry.

The unit should always be positioned to allow for plenty of circulation.

A valve-draining outlet at the front of the unit and care should always be taken to not allow excessive spillage of solution when draining fluid.

GENERAL CLEANING:

The turnover of solution must be determined by the user to satisfy acceptable cleaning results of the finished article.

The more the solution is contaminated the longer the cleaning process.

If the contamination is heavy and difficult to remove a pre-rinse in a heated bath could be sufficient enough to soften and loosen unwanted debris in preparation for the ultrasonic cleaning.

At the other end of the scale after the items have been removed it is essential that a final wash be performed to remove any residue that remains on the cleaned parts.