

UNISONICS

DATA AND SPECIFICATIONS

ULTRASONIC CLEANER MODEL ST18MH

APPLICATIONS:

The Unisonics ST range is a single chamber device used to clean instruments and other hardware with ultrasonic energy in a mixed water/chemical solution.

FEATURES:

- Solid stainless steel construction (tank & jacket)
- Mechanical timer (30 minutes)
- Thermostat controlled heater
- Sweep frequency
- Polyester coated stacked transducers to prevent moisture contamination and maintain high efficiency levels.
- Stainless steel lid and 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 450mm Width 450mm Height 450mm
Chamber Size	(Internal)	Length 300mm Width 300mm Depth 200mm
Basket Size		Length 250mm Width 250mm Height 160mm
Chamber Volume		18 Litres
Operating Liquid capacity		15.7 Litres

APPROVALS:

AS/NZS 3760:2010

AS/NZS 3100:2017

EN 61000-6-3:2012 (EMI Test)

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

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CONSTRUCTION:

All exterior surfaces are 1.2mm thick in 304 grade stainless steel.

The ultrasonic chamber is 1.5mm thick in 304 grade stainless steel.

All integral plumbing is stainless steel.

A valve-draining outlet is located on the front of the unit.

Basket is fabricated from stainless steel mesh and rod.

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

Maximum operating temperature should not exceed 60 degrees Celsius to maintain reliability and maximise efficiency.

Minimum operating depth should not be less than 50mm.

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

CONTROLS:

A 30-minute mechanical timer control is located at the bottom front of the unit and should be set as per operating instructions.

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

A thermostat control to set temperature.

The mains plug/socket is located at the side of the unit.

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

Care should always be taken to avoid 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 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.