

# UNISONICS

## DATA & SPECIFICATIONS

### ULTRASONIC CLEANER MODEL STCON 81M

#### APPLICATIONS:

The Unisonic 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 & inclosure).
- Rounded corner reflex design.
- Sweep frequency.
- Insulation for quiet operation and prevention of heat loss.
- Mechanical timer.
- 1500 watts of power.
- Polyester coated transducers to prevent moisture contamination and maintain high efficiency levels.
- Easy access drain valve.
- Stainless steel lid & basket.
- Cooling fan.
- Locking castors.
- EMC tested and approved.

#### SONIC CLEANING CHAMBER:

##### **Free standing cabinet**

Overall size	(External)	Length 1100mm Width 650mm Height 1000mm
Chamber size	(Internal)	Length 600mm Width 450mm Depth 300mm
Basket size		Length 550mm Width 400mm Depth 250mm
Maximum load		15kg
Chamber size		81 litres
Operating liquid capacity		60 litres

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#### **CONSTRUCTION:**

All exterior surfaces are 1mm 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 cleaning energy is provided to the chamber by twelve piezoelectric transducers bonded to the tank bottom with frequency of 40 kHz.

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

Power is supplied by 1200 watts of solid-state circuitry, which is air-cooled.

#### **CONTROLS:**

A digital 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 is located at the side of the unit, which allows the operator to remove the connection when the cleaner is not in use.

Louvre panels are fitted 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 is located at the side 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.

#### **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.)