



TW-4000 TEMPEST WASHER

Product Specification

Description

The Medical Tempest Washer is a (4) basket ultrasonic, enzymatic soak, agitation, exterior fluid spray and interior lumen flush system.

Application

This unit is designed especially for surgical instruments and small utensils cleaned in the Central Processing Department of the hospital that can be ultrasonically washed.

Features

- Approximate system dimensions: 61"W x 47"L x 63" H
- The Tempest utilizes a single tank system filled with incoming 120°F facility water. The Tempest system will dose the water with a pre-determined ratio of enzymatic cleaner.
- The first cleaning stage utilizes ultrasonic generation for a period of up to 20 minutes.
- Simultaneously during the ultrasonic cycle, the system flushes the interior of the lumens at varying intervals with enzymatic dosed solution and air injection bubble cavitation stream.
- The system rinses the interior and exterior of the ported devices and exterior of all devices with water heated from 120°F up to 190°F via a separate electrical in line heater element.
- The unit provides a final rinse using highly filtered and ozonated pure water.
- The Tempest will bring high powered industrial grade cleaning and repeatable results to your central processing department's process.
- The Tempest cleaning process handles the hard to clean instruments.
- Stainless steel construction of wash tank w/ insulation.
- Automatic lift mechanism for loading/unloading of shelves. Load height is designed for easy operator use.
- Interface for monitoring and controlling process-relevant functions.
- Automated lid lift operated by push button or cycle status.
- Top lid to have a viewing window to see inside system while operating.



- Single shelf configuration for 4 baskets or 4 orthopedic trays on a single shelf is the standard configuration.
- Two baskets will be configured for interior flushing of canulated tools
- Two baskets will be configured for non-canulated tools
- Large 26" x 10" baskets for loading surgical tools accommodate the 56cm bariatric tool.
- Stainless steel construction of exterior panels.
- Sensors to automatically control the solution level in the ultrasonic tank.
- Exterior instrument ozonated water rinse.
- Integral 5 gallon reservoir for cleaning chemistry.
- Low level sensors for 5 gallon reservoir.
- One (1) dosing wash detergent cycle pump for automatic metered mixture of cleaning solution.
- Screen filter basket at tank drain to catch large bio-debris.
- 2 baskets with dual surgical tool manifold cleaning system with quick connections (12-ports per basket).
- Submicron inlet compressed air filter.
- Safety shutoff switch.
- Solution flow monitoring.
- Programmable cycles with supervisor lock out for simple one-touch operator operation.



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Ultrasonic generator

- Digital frequency generation and control.
- Auto frequency tuning for optimized output.
- High efficiency – low heat build up.
- Ultrasonic transducers.
- The ultrasonic will be bonded onto the main ultrasonic wash tank.

HF Output Power.....	1200 watts
HF Peak Power.....	2400 watts
Frequency.....	40 kHz with sweep range of 2000 Hz
Supply.....	230V 50/60 Hz
Operating Mode.....	Double half wave

Process Flow

- 01 Load instrumentation.
- 02 Fill bath with dosed water.
- 03 Flush cannulas with dosed water.
- 04 Sonication (degas).
- 05 Sonication.
- 06 Agitated flush (air and water).
- 07 Flush cannulas with dosed water.
- 08 Sonication.
- 09 Drain bath and agitated flush.
- 10 Fluid spray at 190°F.
- 11 Exterior ozone water rinse.

Midbrook, Inc.
 2080 Brooklyn Road
 Jackson, MI 49203
 PH. (517) 787-3481 / FAX (517) 787-2349

Documentation

One hard copy and One CD with the Machine Operation manual will be provided.

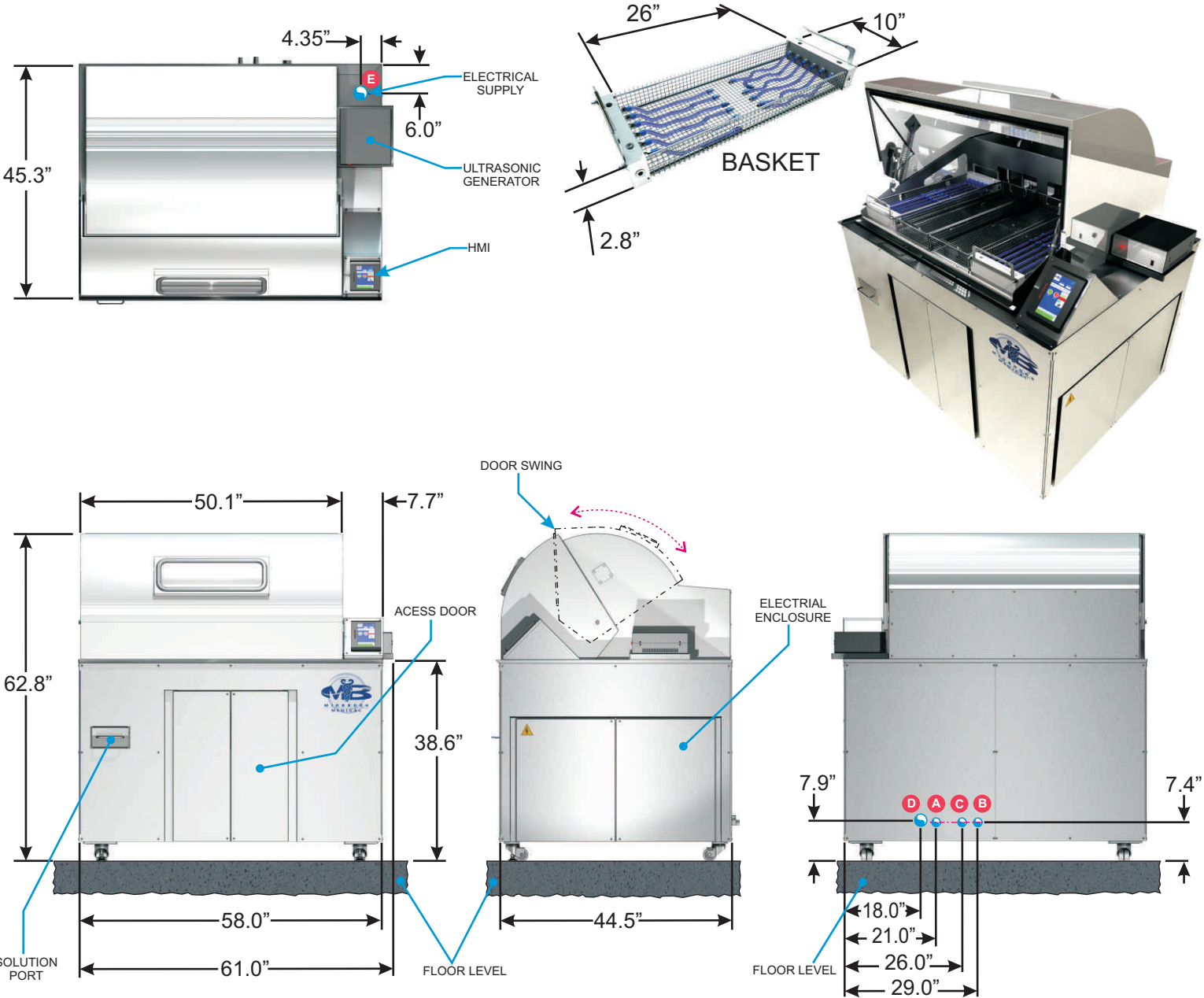
System Requirements

REF.	UTILITY	CONNECTION	PRESSURE	CONSUMPTION	UTILITY REQUIREMENT PER TEMPEST WASHER
(A)	<i>Hot Water</i>	¾" NPT	60 psig	40 gpm	Minimum water temperature is 120°F.
(B)	<i>Cold Water</i>	¾" NPT	60 psig	10 gpm	Ozone water rinse.
(C)	<i>Compressed Air</i>	½" NPT	90 psig	10 SCFM	Air must be dry and oil free.
(D)	<i>Drain</i>	1-½" NPT	GRAVITY		Located in pit
REF.	UTILITY	CONSUMPTION 230V / 3PH / 60 Hz	CONSUMPTION 480V / 3PH / 60 Hz	UTILITY REQUIREMENT PER TEMPEST WASHER	
(E)	<i>Electric</i>	80 Amps	40 Amps	Electric Heated Unit	



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TECHNICAL DRAWING

01-17-2011

Escale:
NOT SCALED

