MODERN TECH ASSOCIATES

TW-1000
TEMPEST WASHER

Product Specification

Description

The Medical Tempest Washer is a 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:46”W x 36.5”L x 61.5” 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.
- 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 1 basket or 1 orthopedic tray is the standard configuration.
- Large 26” x 10.5” basket for loading surgical tools accommodate the 56cm bariatric tool.
- Solution flow monitoring.
- Sensors to automatically control the solution level in the ultrasonic tank.
- Exterior instrument ozonated water rinse.
- Low level sensors for 5 gallon reservoir.
- Screen filter basket at tank drain to catch large bio-debris.
- Basket with dual surgical tool manifold cleaning system with quick connections (12-ports).
- Submicron inlet compressed air filter.
- Safety shutoff switch.

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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....500 watts
HF Peak Power.....1000 watts
Frequency.....40 kHz with sweep range of 100-1000 Hz
Supply.....240V 50/60 Hz

K102858
Trade Name: Tempest Surgical Washer
Classification Regulation Name & Number: 880.6992
Regulatory Class: Class II Exempt
Product Code: MEC
Dated: January 20, 2011

Documentation

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

Process Flow

01. Load instrumentation.
02. Fill bath with dosed water.
03. Flush cannulas with dosed water.
04. Sonication (degas).
05. Agitated flush (air and water).
06. Flush cannulas with dosed water. **3 TIMES**
07. Sonication.
08. Drain bath and agitated flush at 190°F.
09. Fluid spray at 190°F.
10. Exterior ozone water rinse.

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rev.o

System Requirements

REF.	UTILITY	CONNECTION	PRESSURE	CONSUMPTION	UTILITY REQUIREMENT PER TEMPEST WASHER
A	***Hot Water***	¾" NPT	60 psig	48 g/cycle	Minimum water temperature is 120ºF.
B	***Cold Water***	¾" NPT	60 psig		Ozone water rinse.
C	***Compressed Air***	½" NPT	90 psig	10 SCFM	Air must be dry and oil free.
D	**Drain**	1-½" NPT	Gravity		Located in pit

REF.	UTILITY	CONSUMPTION 240V / 3PH / 60 Hz	CONSUMPTION 480V / 3PH / 60 Hz	UTILITY REQUIREMENT PER TEMPEST WASHER
E	***Electric***	***80 Amps***	***40 Amps***	Electric Heated Unit

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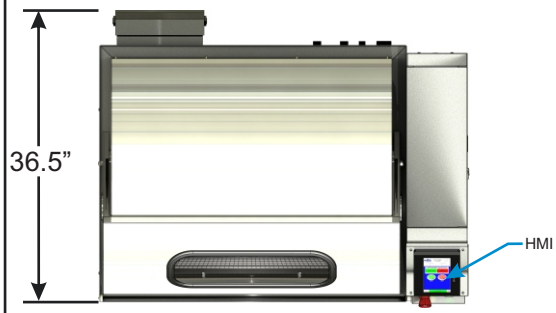

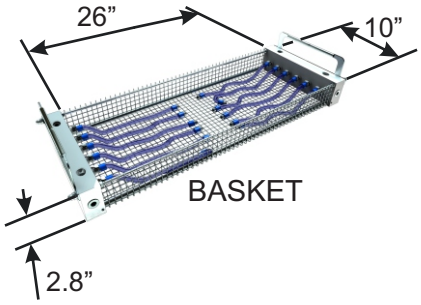

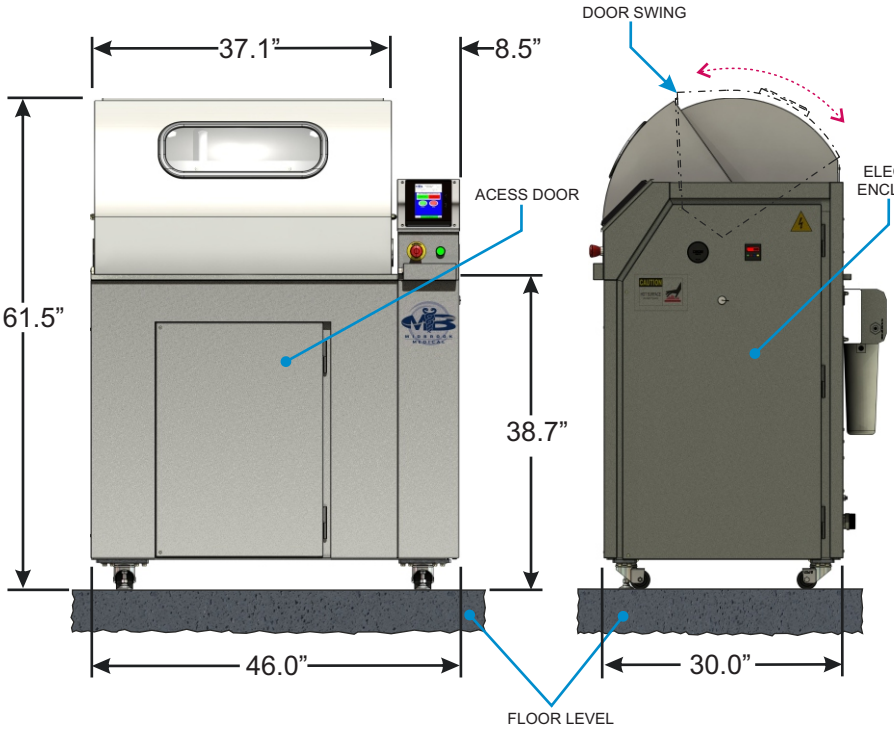

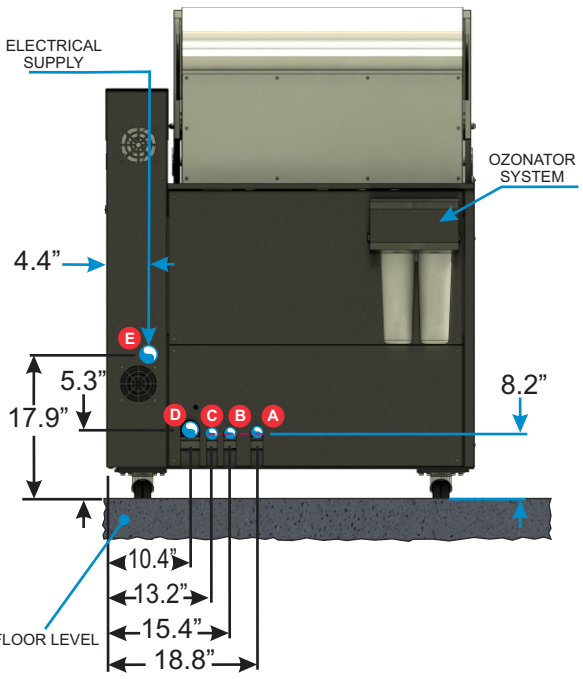

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TECHNICAL DRAWING

Date: 07-31-2012

Scale: NOT SCALED

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