SM-WD Model Washer Disinfectors
Technical Datasheet

Sterilmed TIBBİ CİHAZLAR

STERILMED's Washer & Disinfector Devices is designed and manufactured for fast and efficient disinfection of surgical instruments, dressing tools, rubber materials and liquids in a glass container in healthcare facilities.

Model	WD-8	WD-10	WD-12	WD-15	WD-18	WD-6
Volume (lt.)	**250**	**300**	**350**	**400**	**450**	**475**
Vessel Width (mm)	625	625	625	625	625	625
Vessel Height (mm)	680	680	680	680	680	680
Vessel Depth (mm)	600	710	825	945	1060	1120
Single Door	+	+	+	+	+	+
Double Door	+	+	+	+	+	+
Touch Screen	7"	7"	7"	7"	7"	7"
RS232 Outlet	+	+	+	+	+	+
Water Resistance (kW)	15	15	20	20	20	20
Drying Resistance (kW)	6	6	6	6	6	6
Blowing Drying Motor Fan (m³/h)	210	210	210	210	210	210
Recirculation Pump (KW)	1.47	1.47	2.4	2.4	3.0	3.0
Recirculation Pump Electrical Properties	380V±10	380V±10	380V±10	380V±10	380V±10	380V±10
Recirculation Pump Flow (L/min)	1000	1000	1000	1000	1000	1000
Detergent Dosing Pump	+	+	+	+	+	+
Neutralizing Dosing Pump	+	+	+	+	+	+
Water Drainage Pipe Diameter	1"	1"	1"	1"	1"	1"
Basket	4	5	4	5	6	6
DIN Basket	8	10	12	15	18	15
HEPA Filter	H14, Particle Retention Ratio %99.999					
Electrical connection	3L+1N+1PE 50 Hz, 380 V AC					

Standard Programs	Program 1 INST STANDART		Program 2 INST INTENSE		Program 3 CONTAINER		Program 4 BABY BOTTLES		Program 5 GLASSWARE	
	Temperature (ºC)	Time (min)	Temperature (ºC)	Time (min)	Temperature (ºC)	Time (min)	Temperature (ºC)	Time (min)	Temperature (ºC)	Time (min)
	0-60	67	0-70	72	0-60	67	0-70	82	0-70	68
	Program 6 SHOES		Program 7 ANAESTHETICS		Program 8 MIS INST		Program 9 DRYING		Program 10 SELF WASHING	
	Temperature (ºC)	Time (min)	Temperature (ºC)	Time (min)	Temperature (ºC)	Time (min)	Temperature (ºC)	Time (min)	Temperature (ºC)	Time (min)
	0-60	67	0-60	71	0-60	71	0-125	19	0-50	28

* All the programs include "Thermal Disinfection (90 ºC) and Drying phases (125 ºC)

*   10 predefined special programs are included, with the possibility to customize up to 50 programs

* The duration of the program times are approximate.

Device

Control System	PLC (Programmable Logic Controller)
Operation Mode	Fully Automatic / Button Command
Display Type	Color TFT, LCD Touch Screen
Display Sizes Available	7,0"
Key Pad	Touchscreen
Printer	40 Character/line, integrated thermal printer-optional
Communication	RS232 Port
Warning System	Visual & Audio & Printed
Data Storage	1000 cycles
Monitoring	All the information displayed on the screen
Mobility	Easy positioning on 4 castors (2 x swivel) and firm fixing on suspension legs
GSM and Remote Control	WiFi and GSM modüle-optional

Medical Device Directive	: 93/42/EEC as amended by directive 2007/47/EC
Device Classification	: Class IIb, acc. To EC MDD 93/42/EEC 2007/47/EC (Annex II)
Low Voltage Directive	: 2006/95/EC - EN 60601-2-040
EMC Directive	: 2014/30/EU EN 61326-1
Washer Disinfector Equipment Directive	: EN 15883-1
Sterilization – Washer Disinfector – Large sterilizers	: EN285:2016
Quality Management System Requirements	: EN - ISO 9001:2015
Medical Devices – Quality management systems – Requirements for regulatory purposes	: ISO 13485:2016
Environmental Management Systems – Requirements with guidance for use	: ISO 14001:2015

"Validation Microbiological" tests of STERILMED Washer & Disinfector are performed and certified according to the directives of EN ISO 15883-1 and EN ISO 15883-2.

Safety

- ➢ Protects operator from electrical current leaks.
- ➢ Short circuit protection.
- ➢ HEPA filter for air filtration.
- ➢ Pressure sensor for water level.
- ➢ Water level control.
- ➢ Conductivity water probe.
- ➢ Emergency stop button.

- ➢ Password protection.
- ➢ Sensors against obstructions on the doors pathway.
- ➢ Doors locks.
- ➢ Unable to open both doors at once in Septic-Aseptic models.
- ➢ Power failure alarm.
- ➢ Disinfection cycle failure.

Temperature

Range	15ºC - 95ºC (water) /Drying (125 C)
Measurement	3 x PT 100 (DIN Class A) Sensors
Body	3mm, AISI 304L stainless steel
Chamber	1.5 mm, AISI 304L or AISI 316L
Door	Automatic, double-glassed door
Panels Surrounding	AISI 304L stainless steel
Piping	AISI 304L or AISI 316L stainless steel

Consumption

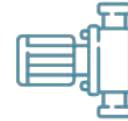|	
Electricity	10 kW/cycle
Water (Approximate)	~120 Lt/cycle
Cart Set (Transport + Loading) with adjustable height option	
Single Transport Trolley (Optional Height Adjusting)	
Single Loading Cart (AISI 304 Stainless&4-6 floors with washing arms)	
DIN Basket (AISI 304 Stainless)	

Installation Requirement

Power	30 kW (Max.), 3 Phase / 380 VAC ±10
Water connections	hot water, cold water, distilled water

Quality Features

- ➢ Expanded capacity for detergent and neutralizer
- ➢ Front/Back emergency button
- ➢ Power-on self-test
- ➢ Manually unlock the door during emergency situations
- ➢ Internal light
- ➢ Safety valve
- ➢ HEPA filter
- ➢ Short circuit protections
- ➢ Dosage sensors for detergent and disinfectant
- ➢ Detergent and disinfectant level indicators
- ➢ Waterjet arms down, top, and for each rack shelf
- ➢ Heat exchanger for drain water
- ➢ Multi languages menu: English, Russian, Romanian, Turkey
- ➢ Easy one side access for service and maintenance
- ➢ Easy to remove and clean internal filter
- ➢ With security measures that protect the operator and the device
- ➢ Password protection (multi-user passwords, service menu)
- ➢ Tempered Glass door resistant to impact and high temperatures
- ➢ Doors locks once the programs start running
- ➢ Turbo heater with steam control
- ➢ Condenser cooling system
- ➢ Open Free Chemical System

Turbo Heater

Condenser Cooling

Thermal Printer

Rack Identification System

Drain Pump

For a Green Future

Drainage

Inclined pipe to be installed on-site at least 2 meters of length with.

Installation Conditions

At least 60 cm. space is needed on both lateral sides of the device to provide an effective technical service. Exhaust fan or ventilation funnel needs to be placed above the device for an effective evacuation of heat.

*Water quality should be checked by standard analitycal test methods by the institution which utilizes the sterilizer.