

Sterilization Process

DECONTAMINATION **STERILIZATION**

DISINFECTION **VALIDATION**

Sterilization must not be taken as a simple procedure; it must be considered as providing new materials suitable for medical purposes, or a process of novel production.

II. Prismatic Steam Sterilizer

ADELA-OT series steam sterilizers are designed and manufactured regarding the manufacturing and product standards.

General Characteristics

Control System	PLC CPU
Operation Mod	Fully Automatic / Button Command
Screen Type	Multi-Color TFT, LCD Touch Screen
Screen Size	7,0" (10,0" optional)
Keypad	Touch Screen
Printer	40 Character /Line , Thermal Printer
Remote Control and Communication	RS 232 Port / USB , Ethernet (optional)
Warning Sytem	Visual & Audio & Printed
Data Storage	Up to 200 Cycles
Monitoring	Touch Screen, Anaolgue Gauges for Chamber, Jacket, Generator and Air Pressure (Manometer)
Mobility	4 Easy positioning on 4 swivel castors and firm fixing on legs
Steam Generator	with pneumatic valves
Data on Screen	Cycle, temperature, time, pressure, warnings



Standard Programs

Medical & Surgical Instruments	134˚C	~ 60 min
Textile Materials	134˚C	~ 60 min
Rubber Articles	121˚C	~ 80 min
Liquids in Glass Container	121˚C	~ 60 min
Liquids in Glass Container	125˚C	~ 60 min
Flash	134˚C	~ 20 min
Prion	134˚C	~ 90 min
Bowie & Dick Test	134˚C	~ 45 min
Vacuum Leak Test	-	~ 25 min
Customizable Program Capacity	-	99



Safety and Quality
Protects operator from electrical current leaks.
Short circuit protection.
Safety valve.
Hepa filter for air filtration.
Water level control via buoy in generator.
Pneumatic Valves for precise exhausting.
Leak test.
Pre-vacuum cycle
Password protection.
Pneumatic sliding doors with sensors against obstructions on the doors pathway.
Doors locks under pressure.
Emergency stop button.
Unable to open both doors at once double door models.

Relevant Directives and Standards	
Medical Device Directive	MDD 93/42/EEC / 2007/47/EC
Medical Device Class	Class IIb, MDD 93/42/EEC, 2007/47/EC (Annex IX)
Low Voltage Directive	2014/35/EU - EN 61010-2-040 – EN 61010-1 – EN 60601-1
EMC Directive	2014/30/EU EN 60601-1-2 – EN 61326-1
Pressure Equipments Directive	PED 2014/68/EU : EN 13445-1, -2, -3, -4, -5
Steam Sterilizer Directive	EN285
Quality Mangement System	ISO 9001
Medical Devices Quality Mangement System	ISO 13485
Enviromental Management Systems	ISO 14001

®"Type tests" of Sümer A.S. Steam sterilizers are performed and certiked according to the directives of EN 285 and TS EN 17665-1-2 by The German accreditation company HYGCEN GmbH.

Technical Data Sheet

CHAMBER VOLUME (LITER) AND DIMENSIONS													
MODELS	SINGLE DOOR						DOUBLE DOOR						
	100 L	150 L	250 L	325 L	425 L	580 L	150 L	250 L	325 L	425 L	580 L	718 L	900 L
Height (mm)	390	390	500	500	670	670	390	500	500	670	670	670	670
Width (mm)	390	390	500	500	670	670	390	500	500	670	670	670	670
Depth (mm)	700	1000	1000	1300	1000	1300	1000	1000	1300	1000	1300	1600	2000
STU Capacity	1	1,5	1,5	2	6	8	1,5	1,5	2	6	8	10	12

DEVICE DIMENSION													
MODELS	SINGLE DOOR						DOUBLE DOOR						
	100 L	150 L	250 L	325 L	425 L	580 L	150 L	250 L	325 L	425 L	580 L	718 L	900 L
Height (mm)	1655	1655	1765	1765	1935	1935	1655	1765	1765	1935	1935	1935	1935
Width (mm)	885	885	995	995	1165	1165	885	995	995	1165	1165	1165	1165
Depth (mm)	1125	1325	1325	1625	1325	1625	1325	1325	1625	1325	1625	1925	2325

PACKING DIMENSION													
MODELS	SINGLE DOOR						DOUBLE DOOR						
	100 L	150 L	250 L	325 L	425 L	580 L	150 L	250 L	325 L	425 L	580 L	718 L	900 L
Height (mm)	1920	1920	2030	2030	2200	2200	1920	2030	2200	2200	2200	2200	2200
Width (mm)	1070	1070	1180	1180	1350	1350	1070	1180	1180	1350	1350	1350	1350
Depth (mm)	1280	1580	1580	1880	1580	1880	1580	1580	1880	1580	1880	2175	2575

DEVICE WEIGHT													
MODELS	SINGLE DOOR						DOUBLE DOOR						
	100 L	150 L	250 L	325 L	425 L	580 L	150 L	250 L	325 L	425 L	580 L	718 L	900 L
Weight (Kg)	500	600	670	770	850	1000	700	800	900	1050	1200	1450	1680

GENERATOR DIMENSION													
MODELS	SINGLE DOOR						DOUBLE DOOR						
	100 L	150 L	250 L	325 L	425 L	580 L	150 L	250 L	325 L	425 L	580 L	718 L	900 L
Generator Power (3 Phase/230 ± 10VAC)	20	20	30	30	40	40	20	30	30	40	40	60	60
Installation Power (kW)	25	25	35	35	45	45	25	35	35	45	45	65	65
Generator Volume(L)	25	25	50	50	75	75	25	50	50	75	75	100	100

TRANSPORT TROLLEY DIMENSION													
MODELS	SINGLE DOOR						DOUBLE DOOR						
	100 L	150 L	250 L	325 L	425 L	580 L	150 L	250 L	325 L	425 L	580 L	718 L	900 L
Width (mm)	480	480	590	590	660	660	480	590	590	660	660	660	660
Height (mm)	1000	1000	1100	1100	1100	1100	1000	1100	1100	1100	1100	1100	1100
Depth (mm)	880	1180	1180	1480	1180	1480	1180	1180	1480	1180	1480	1780	1780

LOADING CART DIMENSION													
MODELS	SINGLE DOOR						DOUBLE DOOR						
	100 L	150 L	250 L	325 L	425 L	580 L	150 L	250 L	325 L	425 L	580 L	718 L	900 L
Width (mm)	380	380	490	490	660	660	380	490	490	660	660	660	660
Height (mm)	365	365	430	430	530	530	365	430	430	530	530	530	530
Depth (mm)	660	960	960	1260	960	1260	960	960	1260	960	1260	1560	960

Technical Data Sheet



TEMPERATURE	
Range	115ºC - 137ºC (Chamber)
Measurement	PT 100 (DIN A Class)
Sensor Position	Chamber (1)

PRESSURE	
Measurement	Pressure Sens0rs (4)
Sens0r P0siti0n	Chamber (1), Jacket(1), Generat0r (1), Gasket(1)

VACUUM	
Source	Pump, Double/ Single Water Ring
Pre-Vacuum	Yes

DEVICE CONSTRUCTION	
Body	AISI 304 Stainless Steel Optional AISI 316 L Stainless Steel
Chamber	6mm, AISI 316 L Stainless Steel Optional up to 12mm thickness
Jacket	3mm, AISI 316L Stainless Steel Optional up to 5mm thickness
Door	10mm, AISI 304 Stainless Steel Optional AISI 316 L Stainless Steel
Panel Cover	1-1,5 mm AISI 304 Stainless Steel Optional AISI 316 L Stainless Steel Up to 3mm thickness
Pipes	Brass, AISI 304 Stainless Steel, AISI 316 L Stainless Steel (Optional)
Chamber Polishing	Electropolishing, Sandblasting(Optional)

DRAINAGE	
Water	Inclined pipe to be installed 0nsite with at least 2 m 0f length (Diameter: 2”-3”)
Steam	Pneumatic valve, software controlled
Air	Vacuum Motor (Built-in)

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.

*All specifications herein are provided for information purposes only and may be modified without notice.

Technical Data Sheet



JACKET	
Test Pressure	3,75 Bar
Test Temperature	140 °C
Working Temperature	134 °C
Working Pressure	2,5 Bar

GENERATOR	
Test Pressure	5,25 Bar
Test Temperature	150 °C
Working Temperature	144 °C
Working Pressure	3,5 Bar
Body	AISI 304 Stainless Steel Optional AISI 316 L Stainless Steel

ENERGY CONSUMPTION	
Electric	20 kW/Loop
Water	~120 Lt/Loop