



LABORATORY TYPE VERTICAL AND HORIZONTAL AUTOCLAVES



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About Us

Süme. A.Ş. was established in 1981 in Ankara to provide services in the medical device sector. It has aimed advancement since the day of its establishment by also taking growth and compliance with the contemporary technologies and protecting the environmental conditions. Our manufacturing takes place in an area of 25.000 m² in Ankara Organized Industrial Zone.

Our Firm is following the innovations in its sector and in abroad through its research and development unit and its application staff with a strong infrastructure of engineers, and is continuing to produce devices it had developed in computer environment based on such innovations with high technology and to contribute their development so as to be most beneficial for the Turkish medicine.

With this purpose, our Firm is strictly following the “Quality Management” principles and rules from design of the products to the after-sale servicing.

Our Firm has been currently certificated for compliance with ISO 9001 quality management system, ISO 13485 medical device quality management system certificate and ISO 14001 environment management system certificate and with product certificates under MDD 93/42/EEC Medical Devices Directive and PED 2014/68/EUPressurized Equipment certificate. Furthermore, our steam sterilizers, and disinfection and washing devices have been certificated by the German accredited body.

Our Firm is successfully implementing several projects supported by Tübitak, KOSGEB, and Ankara Development Agency. SÜMER A.Ş. has been awarded with the following:
Ankara Industry Chamber Award for 2012, 2011 R&D Award,
2012 Success Award.

Our Firm possesses the following certificates;
CE Certificates under the following directives:
ISO 9001,
ISO 13485,
ISO 14001 Quality Management System,
MDD 93/42/EEC Medical Devices,
PED 2014/68/EUPressurized Equipment



Our Vision

To make the Sümer brand a global brand to make our Firm remembered first in the sector.

Our Mission

Our main task is to create designs with competition power in the global sense by taking the priorities of the sector into consideration and being respectful to the environment and people and giving the first priority to the wishes and expectations of customers, and also to produce innovative technological medical products by meeting all the national and international legal requirements.

Our Basic Values

- We are bound up with the Medical Ethical Rules,
- We are people-oriented,
- We respect environment,
- We are creative,
- We are customer-oriented,
- We are innovative,
- We are pro-active,
- We believe in the team spirit.

Laboratory Type Vertical And Horizontal Autoclaves

adela range provides a single solution for the multiples sterilization needs on laboratories including instruments, hollowware elements, glassware and other laboratory items that need a final drying to avoid contamination.

Load has to be placed into the vessel's baskets and after automatic filling with distilled water, device starts to heat up and purge until set temperature is reached. In case of solid objects, discharge is automatically forced during cooling stage to reduce cycle time.



Operating Principal

Vertical and table-top range provides a single solution for the multiples sterilization needs on laboratories including instruments, hollowware elements, glassware and other laboratory items that need a final drying to avoid contamination.

Load has to be placed into the vessel's baskets and, after automatic filling with distilled water, device starts to heat up and purge until set temperature is reached. In case of solid objects, discharge is automatically forced during cooling stage to reduce cycle time.



Digital Microprocessor: Digital microprocessor for an easy programming and parameters selection for sterilization process.

Water Filling: Pure water for sterilization can be added manually into the water pan. Automatic filling is also available by connecting the device to pure mains water.

Safety Features

Cover with security lock system

316 L Stainless steel chamber in compliance with CE PED standards

Built-in steam generator

Built-in vacuum pump



adela autoclaves with built-in printer are specially designed to meet the demand of high-volume operations in hospitals and medical device industries.



Common sterilization packaging processes require traceability of sealed pouches to ensure patient/medical device safety and control all time. The built-in printer of **adela** laboratory autoclaves ensures the end-user that all essentials data needed for traceability can be printed on the printout.



Sterilization Process

- **Pre-vacuum and Filling Stage:** Integrated vacuum pump for initial pre-vacuum and subsequent automatic water filling.
- **Heating Stage:** Fast saturated steam production by means of powerful heating elements.
- **Sterilization Control:** A PT-100 temperature probe controls the chamber temperature, with the possibility of installing another flexible PT-100 temperature probe for liquid programs.
- **Cooling and Drying Stage:** In solid program, discharge is automatically forced during cooling stage to reduce the cycle time. Then, integrated heating jacket together with pre-vacuum pulses is activated for a fast and intense drying.

Programs

Microprocessor has 11 programs in total and the details are prescribed below:

Program	Temperature (°C)	Pressure (bar)	Sterilization Time (min.)	Drying Time (min.)
General	134	2,1	10	10
Fast	134	2,1	4	5
Sensitive	121	1,1	20	10
Prion	134	2,1	20	10
Flash	134	2,1	4	10
Packed 1	134	2,1	5	10
Packed 2	121	1,1	5	10
Liquid 1	134	2,1	10	-
Waste*	134	2,1	20	20
Bowie Dick Test	134	2,1	3,5	-
Helix Test	134	2,1	3,5	-

- Sterilization temperature
- Sterilization time
- Drying time
- Heart probe selection

Laboratory Type Horizontal Autoclaves

MODEL	USEFUL CAPACITY (L)	CELL (ØxD) (mm)	DEVICE (DxWxH)	TEMP. (°C)	MAX. PRESSUR (bar)	POWER (W)	WEIGHT (Kg)
ADELA 40	40	Ø400 x 320	780 x 665 x 660	100 - 134	2,1	4000	105
ADELA 60	60	Ø400 x 525	780 x 870 x 660	100 - 134	2,1	4000	135
ADELA 115	115	Ø400 x 910	780 x 1255 x 660	100 - 134	2,1	7500	175

Laboratory Type Vertical Autoclaves

MODEL	USEFUL CAPACITY (L)	CELL (ØxD) (mm)	DEVICE (DxWxH)	TEMP. (°C)	MAX. PRESSUR (bar)	POWER (W)	WEIGHT (Kg)
ADELA 75	75	Ø400 x 600	670 x 740 x 1140	100 - 134	2,1	5000	120
ADELA 90	90	Ø400 x 750	670 x 740 x 1260	100 - 134	2,1	6000	150
ADELA 115	115	Ø400 x 910	670 x 740 x 1450	100 - 134	2,1	7500	175



Laboratory Autoclaves Accessories



LOADING BASKETS

Ref. No: 8698918584859

EXTERIOR Diameter x H mm: 370 x 265

INTERIOR Diameter x H mm: 360 x 260



LOADING BASKETS FOR WASTE STERILIZATION

Ref. No: 8698918583494

EXTERIOR Diameter x H mm: 370 x 265 INTERIOR

Diameter x H mm: 360 x 260



THERMAL PRINTER

Ref. No: 869891858485372

Prints program number, cycle number, temperature, date and hour of the run, and error messages.

Must be installed in our facilities.

Reference: IT/TLV

Consumables: Paper: PAPER-IT, Ink: 70027

■ ADELA Laboratory Type Autoclave Sterilizer

REFERENCE NUMBER	PRODUCT NAME	MODEL	GMDN CODE
8698918582453	ADELA-3 Y Laboratory Type Horizontal Autoclave Sterilizer 60 L	ADELA-3Y 60 L	38671 - Steam sterilizer
8698918582460	ADELA-3 Y Laboratory Type Horizontal Autoclave Sterilizer 75 L	ADELA-3Y 75 L	38671 - Steam sterilizer
8698918582477	ADELA-3 Y Laboratory Type Horizontal Autoclave Sterilizer 90 L	ADELA-3Y 90 L	38671 - Steam sterilizer
8698918582484	ADELA-3 Y Laboratory Type Horizontal Autoclave Sterilizer 115 L	ADELA-3Y 115 L	38671 - Steam sterilizer
8698918582439	ADELA-3D Laboratory Type Vertical Autoclave Sterilizer 90 L	ADELA-3D 90 L	38671 - Steam sterilizer
8698918582446	ADELA-3D Laboratory Type Vertical Autoclave Sterilizer 115 L	ADELA-3D 115 L	38671 - Steam sterilizer

■ SM Laboratory Type Autoclave Sterilizer

REFERENCE NUMBER	PRODUCT NAME	MODEL	GMDN CODE
8698918580381	SM-3 D Vertical Laboratory Type Vertical Autoclave Sterilizer 75 L	SM-3 D 75 L	38671 - Steam sterilizer
8698918580220	SM-3 D Vertical- Laboratory Type Vertical Autoclave Sterilizer 75 L (sliding lid)	SM-3 D 75 L	38671 - Steam sterilizer
8698918580398	SM-3 D Vertical- Laboratory Type Vertical Autoclave Sterilizer 90 L	SM-3 D 90 L	38671 - Steam sterilizer
8698918580350	SM-3 Y Horizontal- Laboratory Type Horizontal Autoclave Sterilizer 75 L	SM-3 Y 75 L	38671 - Steam sterilizer
8698918580404	SM-3 Y Horizontal- Laboratory Type Horizontal Autoclave Sterilizer 90 L	SM-3 Y 90 L	38671 - Steam sterilizer
8698918582422	SM-3 Y Laboratory Type Horizontal Autoclave Sterilizer 60 L	SM-3Y 60 L	38671 - Steam sterilizer



Certificates and Brand Registry Documents

We believe that the way to the summit passes through high-quality and reliable manufacturing.





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