-2014/68/EU Pressure Equipment Directive

- -2009/105/EC Simple Pressure Vessels Directive -ASME SEC VIII Div. 1
- -EAC
- -EN 3834-2

Akarmak, founded in 1990, manufactures autoclaves

and pressure vessels for various industries including

Retreading-Rubber Vulcanization, Building Materials,

Our autoclaves are manufactured in our state-of-the

-art manufacturing facilities in the city of Eskisehir,

with close proximity to major cities and ports. From

the customer requirement acquisition stage to design,

The autoclaves are designed using advanced design

tools and software meeting the highest safety and

including those for autoclave and pressure vessel

manufacturing, test, delivery and onsite commissioning, Akarmak is capable of providing turnkey and boutique

quality standards. We approach every project as unique

requests. The autoclaves are manufactured with limited

reliance on outside suppliers and are carried out by an

experienced, highly trained and certified work force and technical staff. Akarmak has the following certifications

and custom-made, and can handle customer specific

the Composite Materials, Glass Industry, Tire

Medical Waste Sterilization.

solutions for every customer need.

manufacturing:

- -EN 15085-2

Other certificates that may be required by different countries and jurisdictions. To certify our autoclaves, we work with internationally well-known certificate agencies such as TUV, Intertek, Bureau Veritas Inspection & Insurance Company.

- Safety is critical when it comes to autoclaves and manufacturing based on accepted international and
- Certified raw materials used according to pressure vessel manufacturing standards.
- Manufacturing based on 2006/42/EC
- Machinery Safety Regulation.
- Akarmak product portfolio includes high capacity centralized plant sterilization machinery as well as smaller size hospital-based sterilization equipment in both pre and post autoclave shredding technologies.







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MEDICAL WASTE STERILIZATION SYSTEMS

www.**akarmak**.com

Excellence in Autoclave Manufacturing

Excellent After-Sales Service

Made in Europe





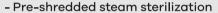
PRE-SHREDDING MEDICAL WASTE STERILIZATION SYSTEMS

FOR CLINICS & HOSPITALS

STERILIZATION LEVEL: 8LOG10 (99,999999%)

AKARMAK MEDICAL WASTE STERILIZATION SYSTEM DATA SHEET

		D	Consumption/Cycle				
Code	Cycle Time (min)	Sterilization Capacities (kg/h)	Power Supply [kW]	Feeding Unit Volume (It)	Autoclave Unit Volume (lt)	Electric (kWh)	Steam (kg)
AKR250L	30-35	40-60	12	250	450	2-3	15
AKR500L	30-35	100-140	20	500	600	3-5	25
AKR1000L	30-35	200-220	22	1000	600	5-7	35
AKR2500L	50-60	300-350	55	2500	1800	20-25	80



- Shredder and autoclave are coupled to each other
- Sterilization temperature: 135-140 °C (Programmable)
- Sterilization pressure: 3-4 bar (Programmable)
- Robert Koch Institute & STAATT Level IV approved
- Up to 80% volume reduction
- Auto reverse system for shredder in case of waste jamming
- Stainless-steel AISI316L pressure vessel and shredder hopper



DESCRIPTIONS	AKR250L	AKR500L	AKR1000L	AKR2500L		
Sterilization Capacity (kg/h)	40-60	100-140	200-220	300-350		
Approximate Total Weight	2000	2500	2900	10000		
Waste Feeding System	Manual	Automatic and manual options				
Total Design Power (Excluding Steam Generator) (kW)	12	20	22	55		
Dimensions (Width x Length x Height) (mm) Without Lifter	1300x2000x2300	3000x3300x3600	3000x3300x3600	6000x8000x6500		
Dimensions (Width x Length x Height) (mm) With Lifter	N.A	3670x2670x4550	3670x2670x5050	7230x5600x6500		
Shredder's Electric Motor Power	7.5 kW	11 kW	5.5 kWx7.5 kW	15 kWx22 kW		









AKARMAK MEDICAL WASTE STERILIZATION MACHINES







POST-SHREDDING MEDICAL WASTE STERILIZATION SYSTEMS

FOR WASTE COLLECTING & TREATMENT PLANTS

STERILIZATION LEVEL: 6LOG10 (99,9999%)

	Design Values				Consumption/Cycle	
Code	Cycle Time (min)	Sterilization Capacities (kg/h)	Power Supply [kW]	Autoclave Unit Volume (lt)	Electric (kWh)	Steam (kg)
AKR500A	45-50	500-700	60	15000	12-15	200
AKR1000A	45-50	1000-1200	60	23000	15-20	300
AKR1500A	50-55	1500-1800	60	29000	22-30	400



- Post-shredded steam sterilization
- Sterilization temperature: 135-140 °C (Programmable)
- Sterilization pressure: 3-4 bar (Programmable)
- Robert Koch Institute & STAATT Level IV approved
- Up to 80% volume reduction

- Auto reverse system for shredder in case of waste jamming
- Shredder and autoclave are separated from each other P295GH material for pressure vessel and shredder hopper
 - Full automatic waste feeding system into shredder's hopper
 - Stainless-steel AISI316L autoclave container material
 - Full automatic, hydraulic autoclave door opening/closing













charged automatically to truck or container

DESCRIPTIONS	AKR500A	AKR 1000A	AKR 1500A	
Sterilization Capacities (kg/h)	500-700	1000-1200	1500-1800	
Approximate Total Weight of Autoclave	19500	21500	23000	
Autoclave Unit Volume (It)	15000	23000	29000	
Total Design Power (Excluding Steam Generator and Compressor) (kW)		60kW		
Dimensions (Inner Dimensions x Length)	Ø2000x4000	Ø2000x6500	Ø2000x8500	
Autoclave Container (mm)		1200x1200x1450		
Shredder's Electric Motor Power		15 kWx18.5 kW		
Autoclave Container Quantity Per Cycle	3	5	7	
Feeding Hopper Capacity For Shredding Unit (lt)		2000		
Dimensions for Shredding Unit (Width x Length x Height) (mm)		6500x6200x6500		
Optimum Building Area Requirement (mm)	15000x15000x8000	18000x15000x8000	20000x15000x80	