

- Safety is critical when it comes to autoclaves and manufacturing based on accepted international and local standards.
- Certified raw materials used according to pressure vessel manufacturing standards.
- Manufacturing based on 2014/68/EU or ASME or EAC standards.
- Manufacturing based on 2006/42/EC Machinery Safety Regulation.
- Certified autoclaves by world well-known certification agencies such as Bureau Veritas, TUV, OneCIS Insurance Company.

Akarmak, founded in 1990, manufactures autoclaves and pressure vessels for various industries including the Composite Materials, Glass Industry, Tire Retreading - Rubber Vulcanization, Building Materials, Medical Waste Sterilization.

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,manufacturing, test, delivery and onsite commissioning, Akarmak is capable of providing turnkey an boutique solutions for every customer need.

The autoclaves are designed using advanced design tools and software meeting the highest safety and quality standards. We approach every project as unique and custom-made, and can handle customer specific 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 including those for autoclave and pressure vessel manufacturing:

- 2014/68/EU Pressure Equipment Directive
- 2009/105/EC Simple Pressure Vessels Directive
- ASME SEC VIII Div. 1
- EAC
- EN 3834-2
- EN 15085-2
- AD2000

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 Bureau Veritas, TUV, OneCIS Insurance Company.

Thank you for your interest in our company and our products. We look forward to realizing successful projects with you and enhance your value chain with high quality products.

Please do not hesitate to contact us, if you have any questions. You can also visit us at www.akarmak.com to get more information about our company and our products. (A) akarmak

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www.akarmak.com

akarmak

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MEDICAL WASTE Song and Song the house of the fing

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Excellence in Autoclave Manufacturing

Superb After-Sales Service

Made in Europe











MEDICAL WASTE

STERILIZATION SYSTEMS

AKARMAK MEDICAL WASTE STERILIZATION SYSTEM DATA SHEET

Code			Consumption / Cycle				
	Cycle Time (min)	Sterilization Capacity (kg/cycle)	Power Supply (kW) [1]	Feeding Unit Volume (It)	Autoclave Unit Volume (It)	Electric (kWh) [1]	Steam (kg)
AKR250L	30-35	20-30	20	250	450	2-3	15
AKR500L	30-35	50-70	22	500	600	3-5	25
AKR1000L	40-45	100-130	22	1000	600	5-7	35
AKR2500L	50-60	250-300	55	2500	1800	20-25	80
AKR500A	35-40	500-700	75	-	15000	12-15	400
AKR1000A	45-50	1000-1200	75	-	23000	15-20	600
AKR1500A	50-55	1500-1800	75	-	29000	22-30	800

* Compressor and steam generator are excluded

- Technical Support & Maintenance by Certified Experts
- Up to %80 Volume Reduction
- Well Engineered and Designed Durable Shredder
- Bayonet Door: Safe and User Friendly
- Reference in 50+ Countries
- 30+ Years of Experience and Know-How
- Siemens Touch Panel







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	AKR 250L	AKR 500L	AKR 1000L	AKR 2500L	Waste loadir	-	500-700	1000-1200	1500-1800		
Sterilization Capacities (kg/cycle)	20-30	50-70	100-130	250-300	Full automatic loading option		Full Automatic,	Full Automatic, Post-Shredded, Steam Sterilization			
						Pressure Vessel and Shredder Hopper Materia	IIS	P295GH			
Process Method	Full Automatic, Pre-Shredded, Steam Sterilization					Approximate Total Weight	19500	21500	23000		
Pressure Vessel and Shredder Hopper Materials	Stainless-steel AISI316L					Autoclave Unit Volume (It)	15000	15000 23000			
Approximate Total Weight	2200	2500	2900	10000	2 Shredding	Waste Feeding System Into Shredder's Hoppe	Full Automatic Including Lifter , Covered With Transparent Fences. Container Feeding System				
Waste Fradius Outan	Automatic and manual options				Current control in case of waste	Auto alaura Da au Curatana	Full Automatic , Hydraulic	Full Automatic , Hydraulic Closing / Opening, Hydraulic Locking / Unloc			
Waste Feeding System		Automatic and r	nanual options		jamming. The shredder rotates revers	Total Design Power (Excluding Steam Generat and Compressor) (kW)	or 75 kW	75 kW	75 kW		
Total Design Power (Excluding Steam Generator) (kW)	20	22	25	55	to unjam and process continues.	Dimensions (Inner Dimensions x Length)	02000x4000	Ø2000x6500	Ø2000x8500		
Dimensions (Width x Length x Height) (mm) Without Lifter	3000x3300x2750	3000x3300x3150	3000x3300x3600	6000x8000x6500		Autoclave Trolley (mm)	1200x1200x1200	1200x1200x1200	1200x1200x1200		
Dimensions (Width x Length x Height) (mm) With Lifter	3000x3300x4000	3000x3300x4150	3000x3300x4400	6000x8000x6500	3 Sterilization Full automation		22kW x 30kW	22kW x 30kW	22kW x 30kW		
neight) (min) with Litter					mode during vac- uuming, steam	Autoplaya Car Matarial	AISI316L				
Shredder's Electric Motor Power	4kW x 11kW		15kW x 22kW	charging and depressurisin	g. Autoclave Trolley Quantity Per Cycle	3	5	7			
Auto Reverse System for Shredder in	~	~	~	~		Feeding Hopper Capacity For Shredding Unit (t) 2000	2000	2000		
Case Of Waste Jamming					. Car	Waste Loading into Shredding Unit	Full Auto	matic Loading into Shred	der		
Sterilization Temperature: 135-140°C (Programmable)	~	~	~	~	Waste	Dimensions for Shredding Unit (Width x Lengt Height) (mm)	h x 6000x5600x6500	6500x6200x6500	6500 x 6200 x 6500		
Sterilization Pressure: 3-4 bar (Programmable)	~	~	~	~	4 Discharging Sterilized was	te Optimum Building Area Needs (mm)	15000x15000x8000	18000x15000x8000	20000x15000x8000		
Sterilization Level	8log10 (99,9999%)				is discharged automatically through	Sterilization Temperature : 140-155°C (Programmable)	~	v	v		
Inspection Report For Sterilization	As per International Standard				archimedes screw.	Sterilization Pressure: 4-5 bar (Programmable	e] 🗸	¥	~		
Level	(Robert Koch Institute & STAATT Level IV etc.)					Sterilization Level		6log10 (99,9999%)			
Waste Volume Reduction	on Up to 80%					Inspection Report For Sterilization Level	As per International Standa	As per International Standard (Robert Koch Institute & STAATT Level IV etc.)			
						Waste Volume Reduction			Up to 80%		

TECHNICAL FEATURES

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Waste Loading and Autoclave Sterilization Manual loading with stainless steel trolleys into the autoclave. Automatic weighing in front of the autoclave. Automatic sterilization process.



Car loading Full automatic loading into the shredder.



Shredding

Current control in case of waste jamming. The shredder rotates reverse to unjam and process continues.



Waste Discharging Sterilized and shredded waste is discharged automatically to truck or container.

