




VERTISA

MEDICAL WASTE STERILIZATION SYSTEMS



A person wearing a blue protective suit, mask, and gloves is working in a laboratory or industrial setting. They are standing next to a large, metallic, cylindrical container, possibly a sterilization chamber. The background shows various pieces of equipment and pipes. The image is overlaid with a green geometric shape on the right side, which contains the text 'WHO WE ARE' in white capital letters. The text is enclosed in a white rounded rectangle.

Vertisa has been founded in 2007 with having Central Office in USA and Manufacturing facilities in Turkey and in Romania. Vertisa USA central office responsible for representation and after sales services is located in Orlando, FL. USA. Vertisa established modern Medical Waste Sterilization Facilities in more than 60 locations and in more than 30 countries around the world. We are the most experienced group in Turkey in both waste treatment and the management of the sterilization facilities. We collect monthly average 600 Tons of medical waste from all the health care facilities in 14 provinces and dispose them in modern medical waste sterilization facilities operated by our company. Within our organization, we have doctors, engineers and trained personnel who are inquisitive and environmentally-conscious.

**WHO
WE
ARE**



ENVIRONMENTALLY FRIENDLY

- No hazardous emission
- No chemicals involved in the processes
- No radiation involvement or exposure
- Clean and environmentally friendly technology
- Low energy consumption



SAFE & MODERN

- Using the latest technology
- All safe equipments
- There is no waste contact between operations.
- Auto loading and Discharging option



EASY TO USE

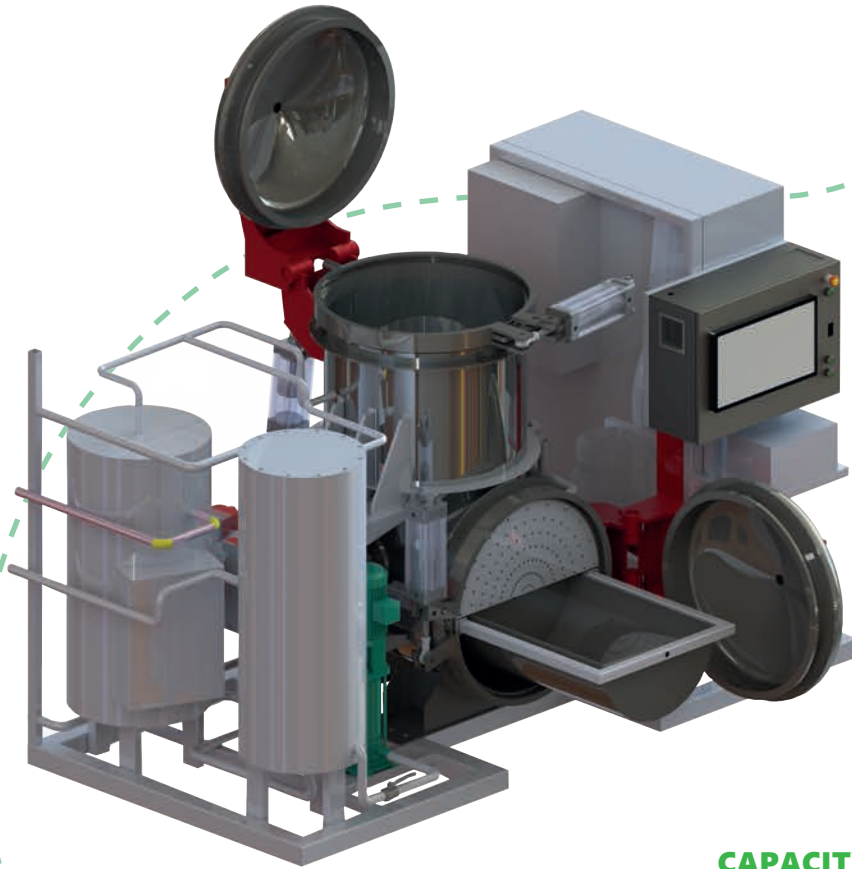
- Operators can be trained quickly
- Computer aided application
- Fully automatic operations
- Instant data transfer via internet

MANUFACTURING FACILITIES WORKS UNDER RIGUROUS STANDARDS:

ISO 9001
ISO 14001
ISO 13485
STAATT4 (USA)
EN285 (EU)

Machinery Directives 2006/42/EC
Low Voltage Directive 73/23/EEC
Directive of Pressurized Equipments (2014/68/EU).
Electromagnetic Compatibility 2004/108/EC
DIN 58951 Esterilizers designed for laboratories (Germany)





CAPACITY

P-50
20 kg/h

P-100
35 kg/h

P-150
55 kg/h

**HOSPITAL USE
COMPACT STERILIZER
WITH INTEGRATED SHREDDER**

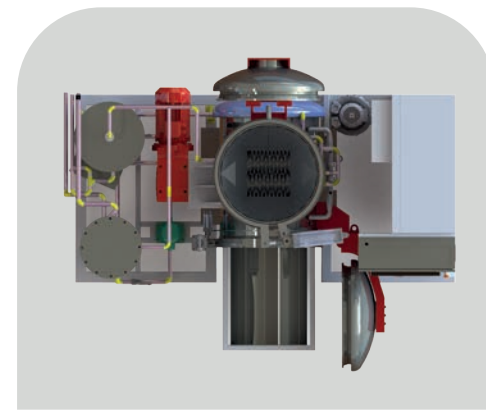
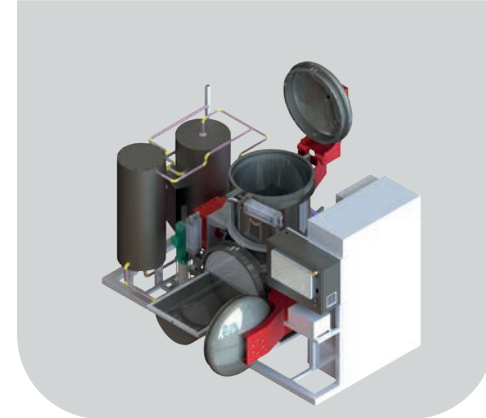
ADVANTAGES

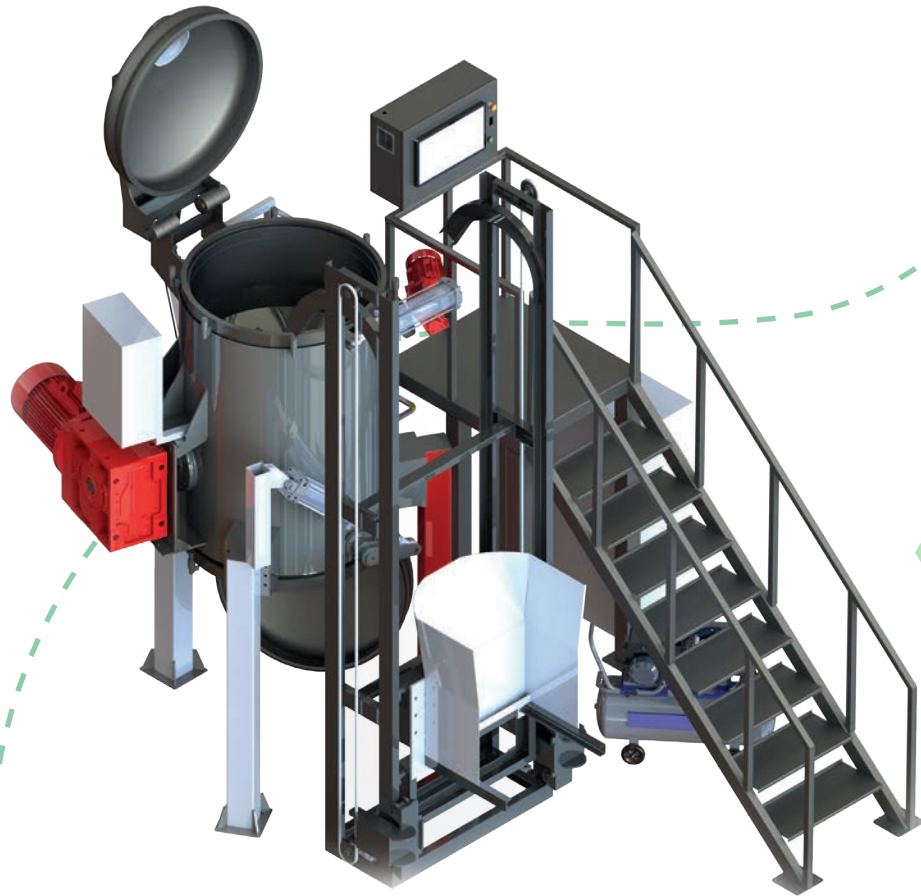
- Compact design
- Fully automated
- User friendly interface
- Hospital usage intended
- Electrical steam generator
- Minimal sound
- Odor minimized
- No vibration
- Minimal water usage
- No waste water produced
- Easily transported

TECHNICAL FEATURES	P-50	P-100	P-150
Size (L x W x H) (mm)	2400x1250x1700	2400x1350x1800	2400x1450x1900
Weight (Kg)	2100	2680	2930
Air Pressure (Bar max)	8	8	8
Electrical connection required (Kw)	30	30	35-45*
WORKING CHARACTERISTICS	P-50	P-100	P-150
Sterilizing Capacity (Kg/ Hour)	15-20	25-35	45-55
Process Volume Capacity (Lt.)	75	150	290
Average Waste Density (Kg/m3)	00 -150	100-150	100-150
Average Cycle Time (Min.)	30-45	30-45	30-45
Maximum Steam Flow (Kg/Hour)	100	140	170
Sterilization Efficiency (SAL)	8 Log10	8 Log10	8 Log10
WORKING CHARACTERISTICS	P-50	P-100	P-150
Steam (Kg)	6	7	8
Electricity (Kw)	1.2	1.5	1.7
Water (Lt)	None	None	None
Special Consumables	None	None	None



* P50 – P100 – P150 includes built in electrical steam boiler
 ** Electrical consumption of the sterilizer only
 *** Water consumption of inteP-1000grated steam boiler: 7 – 12 Lt./
 Cycle Note: Odor Central System. Vacuum Pump Available and
 Optional. All Systems can be customized to customer specification





CAPACITY

P-300

100 kg/h

P-500

150 kg/h

P-1000

250 kg/h

P-2000

450 kg/h

**STERILIZATION AND
TREATMENT FACILITY**

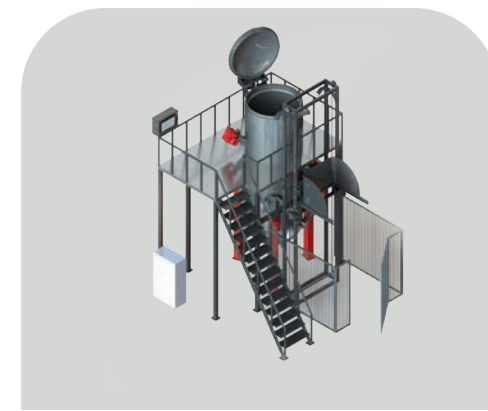
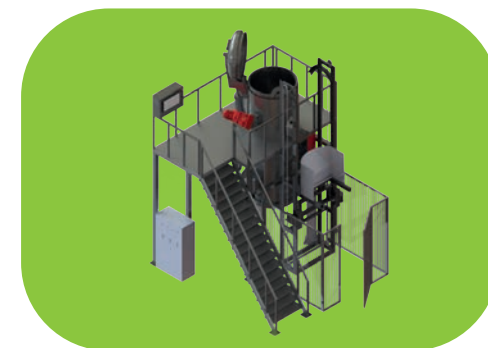
ADVANTAGES

- Industrial design
- Integrated shredder
- Fully automated
- User friendly interface
- Minimal maintenance
- 8 LOG10 sterilization
- Large capacities
- Odor minimized
- No water usage
- Automatic waste elevator
- Anti - Jam shredder
- Long shredder lifetime

TECHNICAL FEATURES	P-300	P-500	P-1000	P-2000
Size (L x W x H) (mm)	2000 x 2000 x 3600	2250 x 2250 x 4200	2500 x 2500 x 5500	3000 x 3000 x 6400
Weight (Kg)	2200	2500	2900	4600
Air Pressure (Bar max)	8	8	8	8
Electrical connection required (Kw)	15	19	20	35

WORKING CHARACTERISTICS	P-300	P-500	P-1000	P-2000
Sterilizing Capacity (Kg/ Hour)	80-100	150-175	200-250	350-450
Process Volume Capacity (Lt.)	400	750	1400	2800
Average Waste Density (Kg/m3)	100 - 150	100-150	100-150	100-150
Average Cycle Time (Min.)	30	35-45	35-45	45-60
Maximum Steam Flow (Kg/Hour)	270	320	470	700
Sterilization Efficiency (SAL)	8 Log10	8 Log10	8 Log10	8 Log10

WORKING CHARACTERISTICS	P-300	P-500	P-1000	P-2000
Steam (Kg)	11	15	20	40
Electricity (Kw)	4	5	9	15
Water (Lt)	None	None	None	None
Special Consumables	None	None	None	None

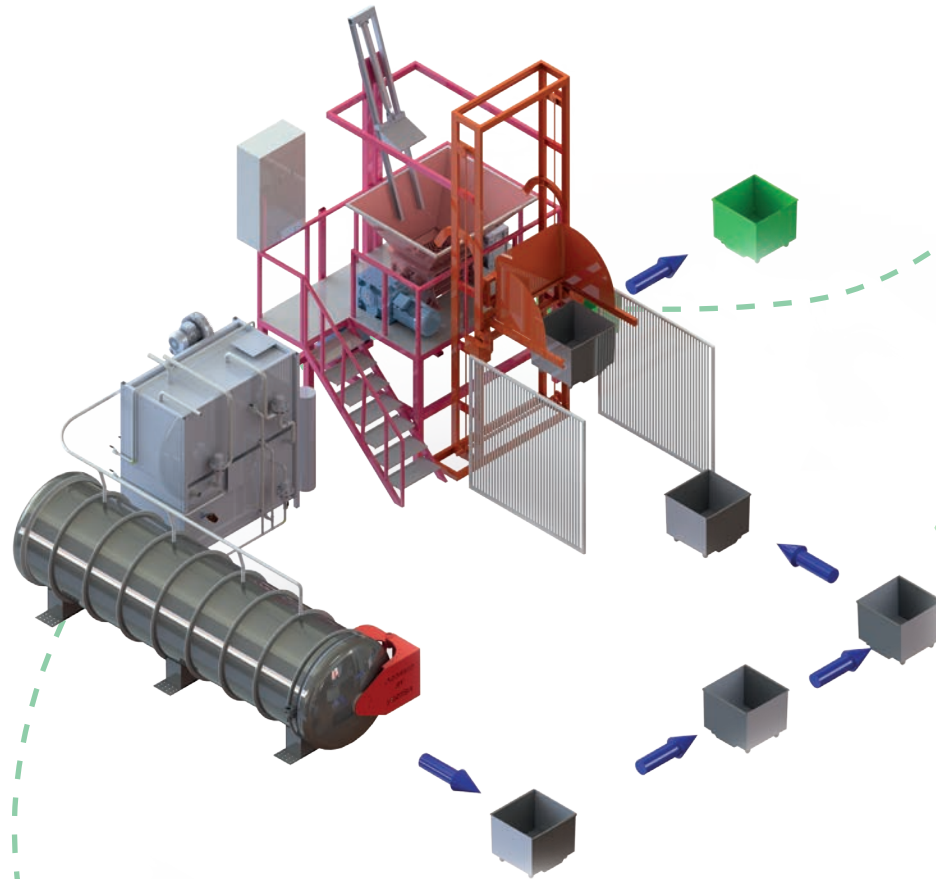


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GENERAL FEATURES





CAPACITY

A-75
75 kg/h

A-150
150 kg/h

A-300
300 kg/h

A-500
500 kg/h

A-1000
1000 kg/h

**STERILIZATION AND
TREATMENT FACILITY**

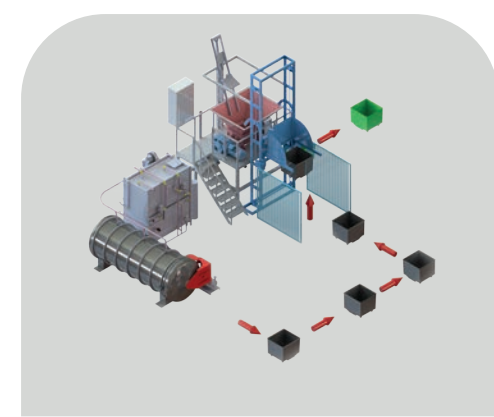
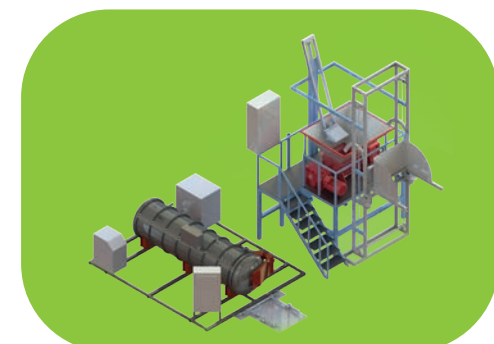
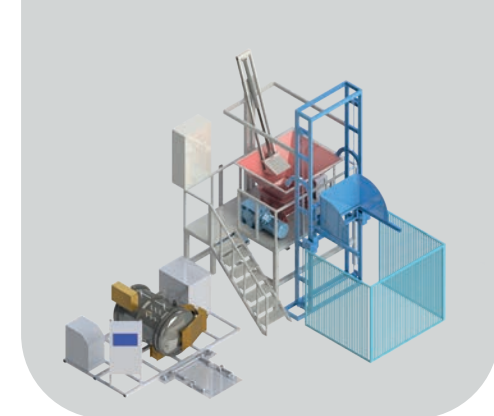
ADVANTAGES

- Industrial design
- Separate shredder
- Fully automated
- User friendly interface
- Minimal maintenance
- Vacuum sterilization
- Extra large capacities
- Odor minimized
- No water usage
- Auto waste elevator
- Anti - Jam shredder
- Long shredder lifetime

TECHNICAL FEATURES	A-150	A-300	A-500	A-1000
Size (L x W x H) (mm)	2200 x 1500 x 1500	3000 x 2000 x 2000	3500 x 2250 x 2250	6000 x 2500 x 2500
Weight (Kg)	1850	2800	4600	2680
Air Pressure (Bar max)	8	8	8	8
Electrical connection required (Kw)	17	19	35	35

WORKING CHARACTERISTICS	A-150	A-300	A-500	A-1000
Sterilizing Capacity (Kg/ Hour)	150	300	500	1000
Process Volume Capacity (Lt.)	870	2000	3500	7500
Average Waste Density (Kg/m3)	100-150	100-150	100-150	100-150
Average Cycle Time (Min.)	30	40	45	45
Maximum Steam Flow (Kg/Hour)	290	380	670	950
Sterilization Efficiency (SAL)	8 Log10	8 Log10	8 Log10	8 Log10

WORKING CHARACTERISTICS	A-150	A-300	A-500	A-1000
Steam (Kg)	13	32	45	70
Electricity (Kw)	4	7	11	16
Water (Lt)	None	None	None	None
Special Consumables	None	None	None	None

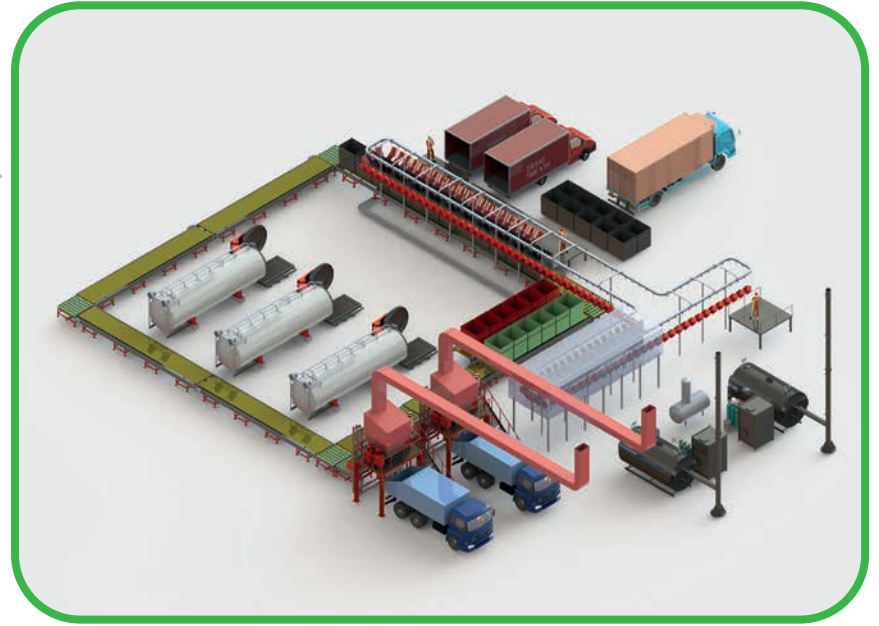
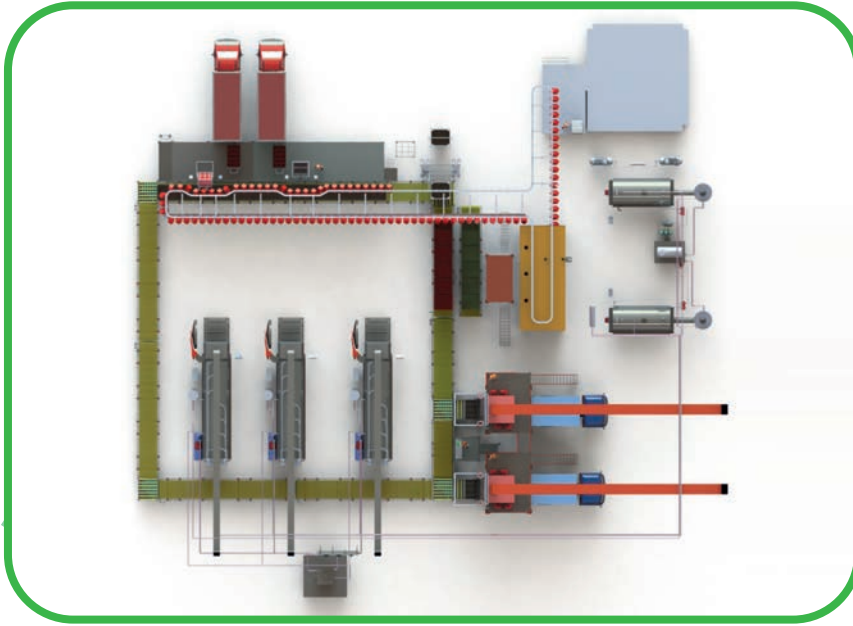


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GENERAL FEATURES





GENERAL PROPERTIES

- Small Space Needed.
- Volume Reduction
- Minimal Impact
- No Water Use
- Completely Automated
- User Friendly Interface

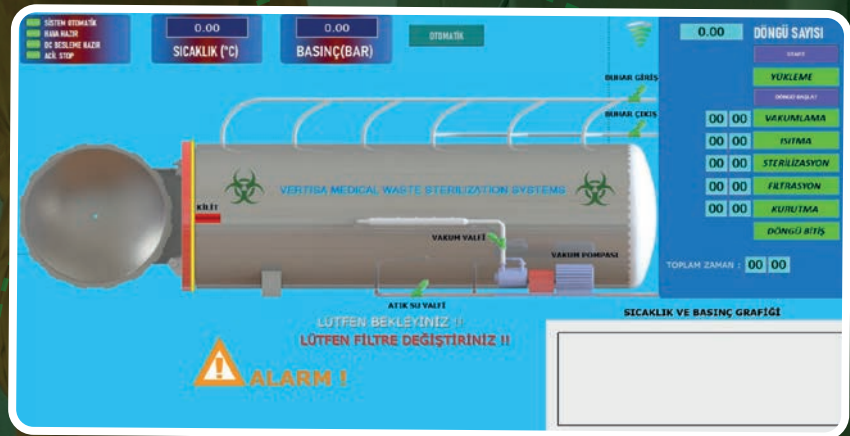
GENERAL ADVANTAGES

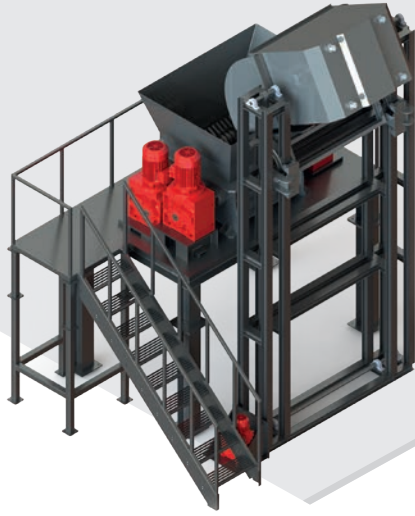
- Autoclave made of stainless steel 321 rust resistant.
- Odor control and reduction (Deodorant).
- Safety systems controlled by PLC INDUSTRIAL
- 60 – 80 % Volume Reduction.
- Air cooling system (Patent Pending).
- Touchscreen for easy operation of each step during the process.



PROMED SYSTEM CONTROL PANEL

Touch screen control panel with intuitive operation, allows the visualization of process variables such as time, waste temperature, chamber pressure, phases, etc.





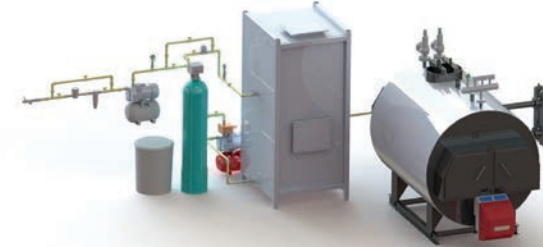
INTERNAL / EXTRENAL SHREDDER

Vertisa's shredders are specially designed for medical waste grinding applications.

Our custom built solution consist of double our four-shaft mechanism with grinding claws that are built from the strongest material ever known to be used for this applications. The shredder is controlled by a PLC unit that changes rotation when the shafts meet a certain amount of resistance. Anti-jam protection standard of all our shredders.

STEAM BOILERS

Our STATE OF THE ART highly efficient, fully cylindrical 3 PASS Scotch-type boilers have large water volumes in order to meet sudden steam injections. Vertisa's steam boilers are highly preferred in the steam production industry due to their ease of maintenance and high efficiency.



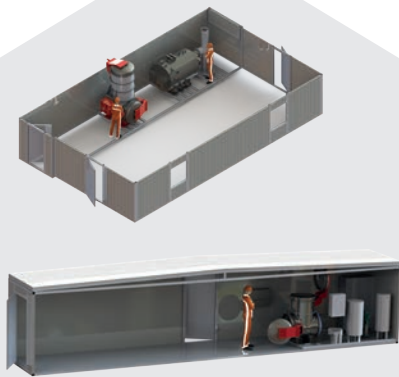
ADVANTAGES

- Specially designed for
- PROMED sterilizers
- 3 Pass scotch type
- 97% efficiency
- Wet back efficient design
- PLC controlled
- LPG/LNG/NG/Diesel/Fuel Oil
- Dual stage burners
- Special insulation
- Stainless steel cover
- Fully automated functioning
- Insulated chimney
- High security

OPTIONAL EQUIPMENTS



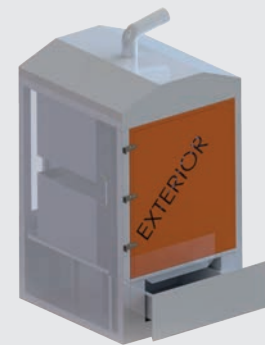
MOBILE STERILIZERS



PREFAB. STERILIZERS



TRANSPORT TRUCKS

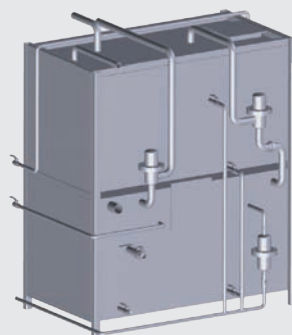


BIN WASHERS

WASTE COMPACTORS



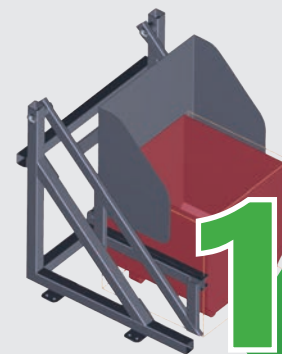
STEAM/WATER RECYCLING



ELEC. STEAM BOILERS



CONT. LOADERS/SKIPPERS



INSTALLATIONS



PROMED P150



PROMED P300



PROMED P1000



PROMED P2000



PROMED A150



PROMED A500



PROMED A1000



PROMED CONTROL PANEL



VERTISA

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