



Global Supplier of
Medical Waste Treatment System



• Autoclave • Shredder • Boiler

Company Profile

Established in 1995, **Gient Heating Industry Co., Ltd.** is a national high-tech enterprise specializing in designing, manufacturing and servicing of medical waste treatment systems.

With a number of world-class patented technologies and a top-level R&D team in medical waste treatment industry, Gient provides automated waste treatment solutions, which achieve high energy efficiency and meet the most stringent environmental standards worldwide.

As China's leading manufacturer of medical waste treatment systems, Gient has developed eight series of products:

1. Centralized system
2. Integrated autoclave with shredder
3. Vertical autoclave
4. Smart station
5. Mobile station
6. Shredder system
7. Boiler and steam generator
8. Fully automated transfer line



Advantages and Key Features



EASY AND SAFE

- ⊗ Fully automated operation process
- ⊗ User-friendly touch screen for visible process
- ⊗ Zero infection risk for operators
- ⊗ Multiple safety protection mechanism

ENVIRONMENTAL FRIENDLY

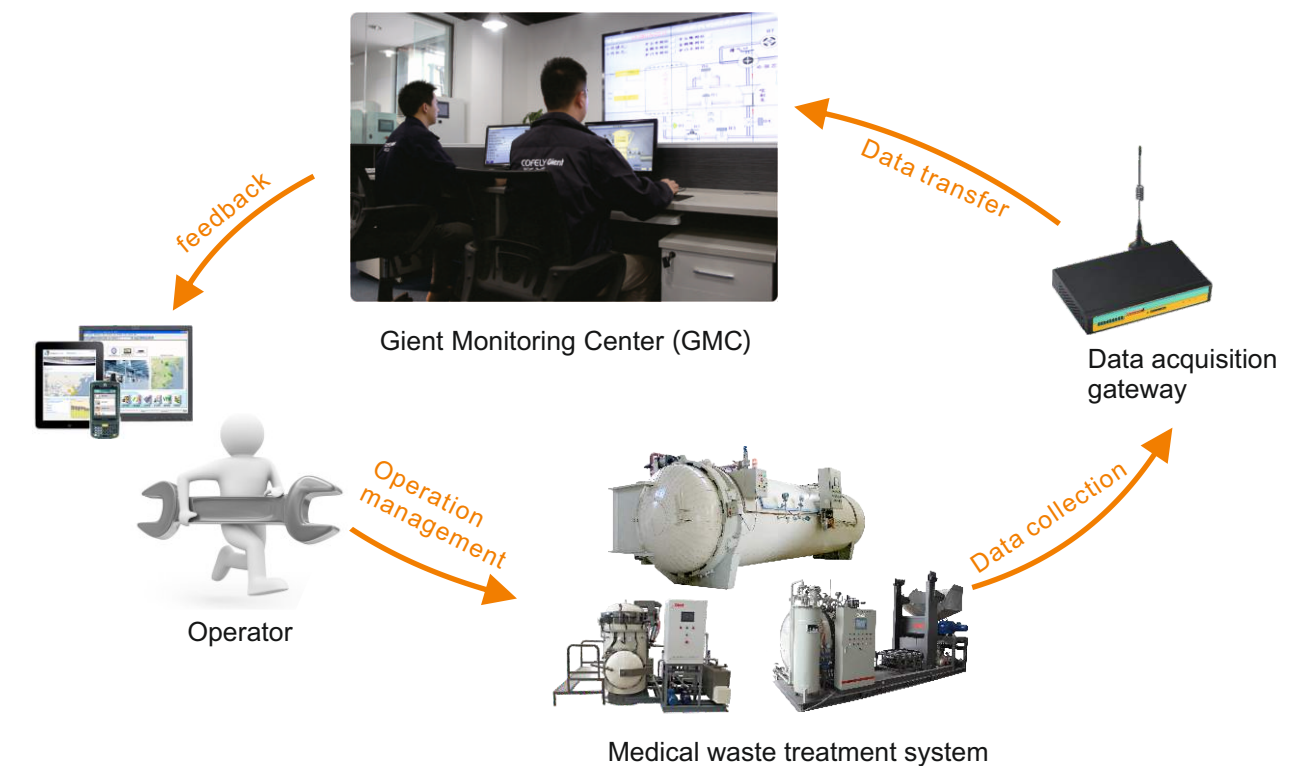
- ⊗ Green process without hazardous emissions
- ⊗ Compliance with strict environmental standards worldwide
- ⊗ Microbial inactivation efficacy exceeds 99.9999%
- ⊗ Proven odor control technology

ECONOMICAL

- ⊗ Proven high efficiency and low operation cost
- ⊗ Advanced anti-corrosion technology to protect autoclave inwall
- ⊗ High standard configuration and low maintenance cost
- ⊗ 15-year lifespan

SMART TECHNOLOGY

- ⊗ Lifelong services based on Gient Monitoring Center (GMC)
- ⊗ Self-recording operation data
- ⊗ Data analysis and alarm prior to abnormalities
- ⊗ Remote diagnosis and problem-resolving online



Centralized Autoclave

MWC Series



1. Brief Description

MWC system is designed for commercial medical waste treatment plants, it is composed of autoclave, shredder and boiler system. The disposal capacity of one unit is up to 20 tons per day.

In MWC series, autoclave and shredder work independently, and medical waste is firstly sterilized in the autoclave at regulated temperature and period, and then be dumped into shredder. A full/semi-automated transfer line is optional to reduce the labor cost.

2. Technical Specification

Type: High temperature, pressure and vacuum autoclave

Process: Sterilization prior to shredding

Sterilization Temperature: 121~143°C/250~289°F

Sterilization Pressure: 0.2~0.4MPa/14.5~58Psi

Microbial Inactivation: 6log10 (99.9999%)

Waste Volume Reduction: 60%

MWC Series	Unit	MWC-700×1	MWC-700×2	MWC-700×3	MWC-700×5
Basic Parameter					
Size (L×W×H)	mm	2070×2030×2270	3350×2030×2270	4630×2030×2270	7190×2030×2270
	ft	6.8×6.7×7.5	11.1×6.7×7.5	15.3×6.7×7.5	23.7×6.7×7.5
Net Weight	ton	2.3	2.5	2.8	3.4
Rated Power	kW	1			
Processing Parameter					
Cycle Time	min	45-60			
Disposal Volume	liter/cycle	700	1400	2100	3500
	gal/cycle	185	370	555	925
Disposal Weight*	kg/cycle	84	168	252	420
	lb/cycle	185	370	556	926

*Model stands for bin volume times bin quantity, for example “MWC-700×3” means bin volume 700L and 3 bins in the autoclave.

*Cycle time can be adjusted as per local regulations..

3. Features

- ⦿ Highest efficiency and lowest operation cost
- ⦿ Carbon steel + special inwall coating avoid corrosion of chloride ions
- ⦿ Fully automated treatment process available with automated transfer line



MWC-1000×3



MWC-1000×6



MWC-1000×6
with automated transfer line

MWC-1000×3	MWC-1000×4	MWC-1000×5	MWC-1000×6	MWC-1400×6	MWC-1400×8
5400×2200×2280					
17.8×7.3×7.5					
4.3					
1					
45-60					
3000	4000	5000	6000	8400	11200
793	1057	1321	1585	2219	2959
360	480	600	720	1008	1344
794	1058	1323	1588	2223	2964

*Waste density was calculated with 120kg/m³ (about 1lb/gal) and it can be modified according to local actual situation.

Integrated Autoclave with Shredder

MWI Series

1. Brief Description

MWI Series is an ideal solution for hospital as well as commercial treatment plants.

After loading, the medical waste will be shredded through the built-in shredder and there be sterilized. The whole process is completed in one closed vessel, that ensures no exposure of stink.

2. Technical Specification

Type: High temperature, pressure and vacuum autoclave with built-in shredder

Process: Shredding prior to sterilization

Sterilization Temperature: 121~143°C/250~289°F

Sterilization Pressure: 0.2~0.4MPa/14.5~58Psi

Microbial Inactivation: 8log10 (99.999999%)

Waste Volume Reduction: 80%

MWI Series	Unit	MWI-150	MWI-300	MWI-500	MWI-750
Basic Parameter					
Size (L×W×H)	mm	3000×1850×2100	3200×2500×5000	3400×2700×5300	3400×2700×5900
	ft	9.9×6.1×6.9	10.6×8.3×16.5	11.2×8.9×17.5	11.2×8.9×19.5
Net Weight	ton	2	3.5	3.8	4.2
Rated Power	kW	8	10	12	12
Processing Parameter					
Cycle Time	min	30	30	35	35
Disposal Volume	liter/cycle	150	300	500	750
	gal/cycle	40	79	132	198
Disposal Weight	kg/cycle	18	36	60	90
	lb/cycle	40	79	132	198

3. Features

- ⊙ Fully automated process from loading to unloading
- ⊙ Stainless steel vessel
- ⊙ Automatic inwall cleaning technique during each cycle reduces corrosion of chloride ions.



MWI-150

MWI-1000	MWI-1500	MWI-2500
4300×3200×6800	4500×3250×8000	5800×5400×8200
14.2×10.6×22.4	14.9×10.7×26.4	19.1×17.8×27.1
5.7	6.2	11
22	22	40
40	40	45
1000	1500	2500
264	396	661
120	180	300
265	397	662



Site of MWI-2500

Vertical Autoclave

MWV Series



1. Brief Description

MWV Series is designed for medical waste treatment in small hospitals and clinics where shredding is not compulsory.

2. Technical Specification

Type: High temperature, pressure and vacuum autoclave

Sterilization Temperature: 121~143°C/250~289°F

Sterilization Pressure: 0.2~0.4MPa/14.5~58Psi

Microbial Inactivation: 6log10 (99.9999%)

MWV Series	Unit	MWV-25	MWV-50	MWV-100	MWV-25T*	MWV-50T	MWV-100T
Basic Parameter							
Size (L×W×H)	mm	620×480×780	670×530×900	1160×700×1100	1800×1800×1300	1800×1800×1300	1800×1800×1300
	ft	2×1.6×2.6	2.2×1.7×3	3.8×2.3×3.6	5.9×5.9×4.3	5.9×5.9×4.3	5.9×5.9×4.3
Net Weight	kg	65	80	230	685	700	870
	lb	143	176	507	1510	1544	1918
Rated Power	kW	5	5	5	25	25	25
Processing Parameter							
Cycle Time	min	20					
Disposal Volume	liter	25	50	100	25	50	100
	gal	7	13	26	7	13	26
Disposal Weight	kg/cycle	3	6	12	3	6	12
	lb/cycle	7	13	26	7	13	26

*"T" model includes a steam generator.

3. Features

- ⊗ Stainless steel vessel
- ⊗ Automatic inwall cleaning technique during each cycle reduces corrosion of chloride ions.
- ⊗ Running independently or with an external shredder

Smart Station

MWS Series



1. Brief Description

MWS Series is designed for small commercial treatment plant when high level of automation is required.

2. Technical Specification

Type: High temperature, pressure and vacuum autoclave

Process: Sterilization prior to shredding

Sterilization Temperature: 121~143°C/250~289°F

Sterilization Pressure: 0.2~0.4MPa/14.5~58Psi

Microbial Inactivation: 6log10 (99.9999%)

Waste Volume Reduction: 60%

MWV Series	Unit	MWS-700×1	MWS-700×2
Basic Parameter			
Size (L×W×H)	mm	6600×2150×3200	7200×2250×3200
	ft	21.7×7.1×10.5	23.7×7.4×10.5
Net Weight	ton	7.5	8.7
Rated Power	kW	20	22
Processing Parameter			
Cycle Time	min	45-60	
Disposal Volume	liter	700	1400
	gal	185	370
Disposal Weight	kg/cycle	84	168
	lb/cycle	185	370

3. Features

- ⊗ Fully automated process and only one operator needed
- ⊗ Installed on a skid-mounted seat and space saving
- ⊗ Carbon steel + special inwall coating avoid corrosion of chloride ions

Mobile Station

MWM Series



1. Brief Description

MWM Series designed for medical waste disposal in emergencies such as natural disasters, epidemic disease (Ebola and MERS), for rural areas, and also for marine and islands etc. MWM system is composed of autoclave, shredder, boiler, power generator and a special designed wing-open container.

2. Technical Specification

Type: High temperature, pressure and vacuum autoclave

Sterilization Temperature: 121~143°C/250~289°F

Sterilization Pressure: 0.2~0.4MPa/14.5~58Psi

Microbial Inactivation: 6log10 (99.9999%)

Waste Volume Reduction: 60%

MWM Series	Unit	MWM-150	MWM-700×1	MWM-700×2
Basic Parameter				
Size (L×W×H)	mm	5000×2100×2500	7300×2250×3200	8600×2250×3200
	ft	16.5×7.6×8.3	24.0×7.4×10.5	28.2×7.4×10.5
Net Weight	ton	5	7	8.7
Rated Power	kW	43	46	46
Processing Parameter				
Cycle Time	min	45-60		
Disposal Volume	liter	150	700	1400
	gal	40	185	370
Disposal Weight	kg/cycle	18	84	168
	lb/cycle	40	185	370

3. Features

- ⊗ All-weather working (24H/7D) as long as water and diesel available
- ⊗ Specialized container with wing-open structure and lighting system.
- ⊗ Only one hour preparation before ready to work when arriving at a new place.

Shredder System

GS Series



1. Brief Description

Double shafts shredder with specific wear resistant blades crushes and grinds the waste into unrecognizable pieces. Shredder system is composed of shredder, control cabinet, automatic bin dumper, hopper and optional screw conveyor.

2. Technical Specification

GS Series	Unit	GS-5.5	GS-15	GS-30	GS-45
Basic Parameter					
Size (L×W×H)*	mm	1450×800×1750	4350×2650×5200	4500×3150×5500	4630×3150×5800
	ft	4.8×2.6×5.8	14.4×8.7×17.2	14.9×10.4×18.2	15.3×10.4×19.1
Net Weight	ton	0.75	4.6	5.8	8
Rated Power	kW	5.5	20	32	47
Processing Parameter					
Suitable for Bin Model	liter	-	700	1000	1400
Shredding Time per Bin	min	2	2	3	3

*Size of shredder and bin dumper

Gient provides packaged supply of medical waste treatment system and customized solutions.



Boiler & Steam Generator



Automated Transfer Line



Washing Unit

Gient follows the principle of continuous improvement, and the actual data of products maybe different from this brochure.

Projects in Operation



OUR VISION is to be a highly-trusted provider of the most-effective medical waste treatment system to foster the future.



Gient Heating Industry Co., Ltd.

Gaobao Hu East Rd. 3, Konggang Zone, Yubei District,

Chongqing 401120, China

Tel: 86-23-67383009 Fax: 86-23-67383368

Email: info@gient.cn Web: www.gient.net