

**FOR PROPER
DISPOSAL**



A Global Inventory of Alternative Medical Waste Treatment Technologies

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FOR PROPER DISPOSAL: A Global Inventory of Alternative Medical Waste Treatment Technologies

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Disclaimer

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Introduction

In 2004, the Stockholm Convention on Persistent Organic Pollutants came into force and the World Health Organization released its Policy Paper on Safe Health-Care Waste Management. Since then more than 120 countries have ratified the Stockholm Convention, which requires the “*continuing minimization and, where feasible, ultimate elimination*” of releases of persistent organic pollutants, such as dioxins and furans, which are generated by medical waste incinerators. Annex C of the Convention states that priority should be given to technologies that prevent the formation and release of dioxins and furans, among others. In keeping with the Convention, the WHO policy paper calls for the effective, scaled-up promotion of non-incineration technologies.

The purpose of this inventory is to provide a global listing of alternative technologies for the treatment of infectious waste. These alternative technologies operate under conditions that avoid formation of dioxins and furans. The inventory is intended for use by health and environment ministries, international organizations, aid agencies, multilateral lending institutions, national and local planners, policymakers, health-care professionals and non-governmental organizations involved in health-care waste management or in the development of national and local health-care waste management plans.

It is important to note that alternative treatment technologies should be part of a health-care waste management system. Such a system must include: pollution prevention; waste minimization; correct classification and segregation; proper containment; color-coding; safe handling and collection of waste; labeling and signage; proper storage and transport; and safe disposal of treated waste. Pollution prevention and waste minimization entails environmentally preferable procurement practices, source reduction, material substitution, safe reuse, recycling and composting of waste where possible. Other key aspects of a good health-care waste management system include: written policies; clear delineations of roles and responsibilities; the development of effective plans with stakeholder participation; effective implementation; regular training at all levels; motivational programs to promote process change; monitoring, periodic evaluation, and continuous program improvements; and full consideration of occupational safety and personal protection. It is in this context that any medical waste treatment technology should be considered.

Basic Types of Alternative Treatment Technologies

A wide range of alternative technologies are now commercially available. **Steam sterilization in autoclaves** is the most common alternative treatment method. Since autoclaves have been used in the treatment of infectious waste for many decades, their operation is well established. Several types of steam sterilizers or autoclaves are available: gravity-fed, pre-vacuum and pulse or multi-vacuum cycle autoclaves. Unlike incinerators, autoclaves heat the waste to temperatures high enough to disinfect but not hot enough to burn and create air pollutants such as dioxins and furans.

Generally, the minimum time-temperature parameters for waste treatment in autoclaves are 30 minutes at 121°C (250°F) to achieve Level III disinfection (see STAATT criteria below). Level III disinfection is less than what one requires for the sterilization of surgical instruments but is more than sufficient to render infectious waste much safer than domestic waste. The actual time-temperature parameters should be determined by each facility based on its typical waste composition, type of containers used and method of stacking the waste in the autoclave. Microbial inactivation efficacy testing should be performed periodically using microbiological indicators (heat-resistant bacterial spores) and color-changing indicators. Rigorous segregation is important in order to exclude hazardous chemicals that should not be treated in an autoclave. Odors can be a problem with autoclaves when they are operated in an enclosed space, but proper ventilation or use of odor removers such as enzyme-based deodorants can minimize odors.

This inventory lists manufacturers that offer autoclaves specifically for waste treatment, as well as manufacturers that sell autoclaves for instrument sterilization. There seem to be no commercial autoclaves specifically designed for treatment of waste in small rural clinics or health stations (a project under GEF, the Global Environmental Facility, and involving HCWH, WHO and the United Nations Development Program is currently developing small to medium-size medical waste autoclaves in Africa). For this reason, manufacturers of small to medium-size autoclaves for instrument sterilization have been included. Health facilities should *not* use the same autoclave for both waste and reusable medical instruments.

Autoclaves specifically designed for waste are generally much larger and have a horizontal configuration to make it easier to load and remove waste. A major difference is the container used for autoclaving. Autoclaves for medical devices often use trays or stainless steel baskets, while waste autoclave use autoclavable carts or bucket-shaped open containers into which the plastic waste bags are stacked. Depending on the type of plastic bags used, some bags may melt and stick to the surfaces of the cart or container. Use of autoclavable plastic bags or liners that prevent sticking is an option.

A **post-treatment shredder or grinder** could be used if the waste is to be rendered unrecognizable and if reduction of waste volume is desired. Advanced single- or multiple-shaft shredders specially made for medical waste are capable of reducing waste volume by about 80%. The advanced shredders are typically low-speed, high-torque, single-pass shredders with easily replaceable cutters and with discharge screens to control the size of shredded waste. Many shredders have ram assemblies to prevent bridging in the feed hopper, auto-reverse features to handle soft waste

that tends to get stuck in the shredder, and automatic shut-off to prevent damage from large hard metals. The GEF project is developing simple shredders for sharps waste.

In the last few decades, a second generation of advanced steam-based systems has been developed for the purposes of improving heat transfer, decreasing the processing time, achieving more uniform heating of the waste and eliminating cold spots, rendering the waste unrecognizable, reducing waste volume significantly, making most of the operation automatic, and/or making the treatment system a continuous process. These advanced treatment technologies combine steam treatment with vacuuming, internal mixing or fragmentation, internal shredding, post-treatment drying, and compaction. Many are designed to remove odors using activated carbon or high efficiency particulate air (HEPA) filters. Often, the resulting waste is dry, unrecognizable, and compact, achieving as much as about 90% volume reduction. Unlike regular autoclaves, some of these advanced steam systems have been tested successfully for use with animal waste and could be used with pathological waste including anatomical parts. These advanced steam systems have higher capital costs than standard autoclaves of the same capacity.

Microwave treatment is another type of alternative technology. For years, the most common microwave device has been a medium- to large-scale, semi-continuous system using an internal shredder, rotating internal screw, and industrial magnetrons to generate microwave energy. The semi-continuous microwave unit has the advantage of low operating costs and no liquid effluent but the treated and shredded waste comes out moist. The semi-continuous system has its own steel enclosure and can be installed outside a building. Small batch microwave units are now also available and can be used in small hospitals, clinics or in departments of a large hospital. Microwave units generally have higher capital costs than standard autoclaves.

Pathological and chemotherapeutic wastes can be treated using **alkaline hydrolysis technology** which combines steam sterilization with tissue digestion using sodium or potassium hydroxide. These technologies are designed to destroy anatomical parts, organs, tissues and animal carcasses, breaking down organic material into basic amino acids, sugars, soaps, salts, etc. and leaving behind a “bone shadow” of calcium. In principle, alkaline hydrolysis can also destroy many chemotherapeutic or cytotoxic agents, and aldehydes (such as formaldehyde and glutaraldehyde) commonly used in hospitals.

There are also commercial **dry heat treatment technologies**. Moist heat has been shown to be more effective than dry heat in achieving disinfection, so dry heat systems generally require longer exposure times and higher temperatures to meet minimum disinfection levels. Other types of alternative technologies include biological and chemical systems but they are not included in this inventory except for alkaline hydrolysis. This inventory includes a few alternative technologies for sharps waste, such as needle cutters and needle melters which are also commercially available.

Treatment Approaches

There are four basic treatment approaches to consider: a centralized treatment system, decentralized (on-site) treatment, mobile treatment system, and treatment within clusters.

The **centralized treatment approach** entails the use of one or more large-scale treatment units located at a central treatment plant. A centralized approach requires a good infrastructure of collection and transportation of untreated waste using specialized vehicles. If the central facility is not located adjacent to a landfill or dumpsite, regular waste transport vehicles will be needed to bring the treated waste to the landfill or dumpsite for final disposal as domestic waste. The centralized approach has the disadvantages of having to transport infectious waste through public roads and the added cost of transport, such as fuel costs. However, it has the advantage of the economy of scale and is the preferred approach in many industrialized countries.

The opposite approach is a **decentralized treatment system** wherein all health facilities operate their own on-site treatment unit. This approach would require that each facility prepare an adequate space for a treatment system including utilities, ventilation, and sewer drains. The location of the treatment area should be away from public areas but easily accessible to the health workers responsible for collecting infectious waste. Each facility would be required to maintain their equipment, document the treatment process, train workers on the proper operation and safety procedures, and provide workers with personal protection equipment. After the waste is treated, it can be mixed with domestic waste for pickup and disposal. The decentralized approach has the advantage of disinfecting infectious waste close to the source of generation. By avoiding the problem of transporting infectious waste through public roads, the potential for accidental release of infectious materials is reduced.

A relatively new approach is a **mobile treatment system**. In this approach, the treatment units are mounted on trucks and are brought to different health facilities where they treat the waste. After the waste is treated, it becomes domestic waste for regular pickup and disposal. The mobile unit is then transported to the next health facility to treat their waste. Only a few vendors offer a mobile treatment system, and the capital and operating costs of mobile systems are high.

A fourth approach is a combination of the centralized and decentralized system, namely, the **treatment within clusters** of health facilities. In this approach, a major hospital or health facility is designated as a central hub for the treatment of infectious waste within an area or district. Infectious waste from the hospital itself plus waste from nearby hospitals, clinics and health centers are treated at the central hub. The central hub has to maintain one or more transport vehicles to collect waste from all the nearby health facilities. The treated waste then becomes part of the domestic waste of the major hospital and is picked up and disposed of as domestic waste. In a cluster treatment approach, a cost sharing arrangement could be set up between the major facility (the hub) and other hospitals and health facilities within the cluster.

Criteria for Selecting Technologies

Determining the best technology or combination of technologies depends on many general and site-specific factors as listed on the next page.

- ▶ Regulatory acceptance
- ▶ Microbial inactivation efficacy
- ▶ Occupational safety and health
- ▶ Environmental emissions and waste residues
- ▶ Throughput capacity
- ▶ Types of waste treated
- ▶ Cost
- ▶ Space requirements
- ▶ Utility and other installation requirements
- ▶ Reduction of waste volume and mass
- ▶ Noise and odor
- ▶ Ease of use
- ▶ Operator training
- ▶ Reliability
- ▶ Level of commercialization/ability to fill orders
- ▶ Technology manufacturer/vendor background
- ▶ Community and staff acceptance.

Regulatory Acceptance

The treatment technology should be approved or meet the requirements under existing national and local regulations.

Microbial Inactivation Efficacy

The treatment technology should meet the minimum requirements for disinfection in the country. Many countries use the STAATT criteria. A consortium of regulatory agencies called the State and Territorial Association on Alternative Treatment Technologies (STAATT) met in 1994, 1998, and 2005 to develop consensus criteria for medical waste treatment efficacy. The first STAATT meeting came up with the following definitions of the levels of microbial inactivation:

Level I	Inactivation of vegetative bacteria, fungi, and lipophilic viruses at a 6 Log ₁₀ reduction or greater
Level II	Inactivation of vegetative bacteria, fungi, lipophilic/hydrophilic viruses, parasites, and mycobacteria at a 6 Log ₁₀ reduction or greater
Level III	Inactivation of vegetative bacteria, fungi, lipophilic/hydrophilic viruses, parasites, and mycobacteria at a 6 Log ₁₀ reduction or greater; and inactivation of <i>B. stearothermophilus</i> spores and <i>B. subtilis</i> spores at a 4 Log ₁₀ reduction or greater
Level IV	Inactivation of vegetative bacteria, fungi, lipophilic/hydrophilic viruses, parasites, and mycobacteria, and <i>B. stearothermophilus</i> spores at a 6 Log ₁₀ reduction or greater

Level III disinfection has been the recommended minimum criteria by STAATT. The second STAATT meeting recommended the following representative biological indicators:

- ▶ Mycobacteria (6 Log₁₀ reduction) using *Mycobacterium phlei* or *Mycobacterium bovis* (BCG)
- ▶ Bacterial Spores (4 Log₁₀ reduction) using *Geobacillus stearothermophilus* (formerly *B. stearothermophilus*) or *Bacillus atrophaeus* (formerly *B. subtilis*)

Some countries simply use *Geobacillus stearothermophilus* spores as the main indicator.

Occupational Safety and Health

When selecting a treatment technology, facilities should consider potential worker exposure to hot surfaces, chemicals released in the workspace as a result of inadequate segregation, sharps that may fall out during conveying, blood splatter and aerosolized pathogens from improper containment and handling of waste bags, etc. Workers should be provided with proper personal protection equipment and hepatitis vaccination. In the event of an equipment breakdown, the technology should have safety features to allow safe access to internal parts of the equipment. Some technologies have a way of injecting chemical disinfectants or steam on untreated waste and internal surfaces in case of repairs. Some technologies have safety interlocks that prevent workers from opening doors if the chamber is still under pressure. Autoclaves should be equipped with overpressure relief valves or emergency blow-out valves. Some large centralized autoclave systems have “man-inside” alarms to prevent closing doors if a person is inside the chamber.

Environmental Emissions and Waste Residues

Facilities should consider discharges to all possible environmental media and select technologies with the least impact on the environment. The treated waste should be safely disposed of in a regular landfill. If volume reduction is needed to render the waste unrecognizable and lessen the impact on landfills, a post-treatment shredder should be considered.

Throughput Capacity

The capacity of the technology should match the waste generation rates of the facility. Future anticipated growth and seasonal variations in waste generation should be taken into account. The throughput rates cited by technology vendors are approximate and actual throughput rates depend on waste densities and other factors.

Types of Waste Treated

Broad categories are used to describe the types of waste that a technology can handle, generally based on manufacturers' recommendations. Laboratory solvents, waste pharmaceuticals, cytotoxic agents, mercury-containing devices, cleaning solutions, and other chemicals should be treated as hazardous chemical waste and should not be treated in alternative treatment technologies (except for those designed for these types of waste).

Cost

A comparison should be made to determine the most cost-effective option. As a general rule, the capital costs of standard autoclaves are the lowest, followed by advanced steam systems and microwave technologies. Capital cost estimates especially for large systems may include shipping, import duties, site preparation, installation, commissioning, project management, and regulatory fees. Operating costs include labor, utilities, supplies, maintenance, periodic validation testing, and landfill disposal costs.

Space Requirements

The space needed to operate the technology should fit the available space in the facility. That space should include allowances needed for opening waste entry doors, access to control panels, and enough space for moving bins. A typical layout of a large treatment facility includes: space for the treatment technology and ancillary equipment such as shredders and cart dumpers, sufficient traffic areas to move waste carts around, temporary storage section for untreated waste, temporary storage section for treated waste, area for cleaning carts and bins, room to store

personal protection equipment, place to store disinfectants and clean-up materials, wash basin and eyewash station, drains, and heating/ventilation/cooling system.

Utility and Other Installation Requirements

Some technologies only need an electrical source; others may require steam, compressed air, natural gas, drains, ventilation, etc. Concrete pads may be needed for large units. Some vendors include the cost of installation in the equipment price. Optional ancillary equipment includes waste carts, tracks, conveyors, as well as shredders and compactors to reduce waste volume.

Reduction of Waste Volume and Mass

As already mentioned, many alternative technologies require a post-treatment shredder or compactor to reduce waste volume. Some advanced systems have internal shredders and post-treatment vacuum systems to remove moisture and reduce the weight of treated waste.

Noise and Odor

Reducing noise and noxious odors are important aspects of occupational health and community relations. Noise could be a problem with hammer mills and other types of shredders and grinders. Odors could be reduced by proper ventilation, use of filters, and odor-reducing agents.

Ease of Use

Automation minimizes operator errors while allowing efficient and easy control of the process, safety interlocks, diagnostics, remote monitoring, alarms, and automatic documentation to meet record keeping requirements. Most non-incineration technologies are designed for ease of use. Usually, the most labor-intensive task is introducing waste into the equipment. It is also a source of occupational injuries (e.g., back problems, blood splash, needle-stick injuries). Many technologies now include automatic feed assemblies such as cart lifters or bin dumpers to eliminate handling of waste bags by workers.

Operator Training

When selecting a technology, the level of required skills and training of the operator should be considered. Vendors of large waste treatment systems generally offer operator training when a new system is installed. Operator training should include: a basic understanding of the system, standard operating procedures, occupational safety and personal protection equipment, record keeping, identifying waste that should not be treated in the technology, recognizing technical problems, dealing with unusual conditions, periodic maintenance schedules, emergency procedures, and contingency plans. Facilities should document operator training and qualification.

Reliability

Reliability of equipment can be determined from past repair and maintenance records of facilities that have used the equipment. Some vendors provide client lists which may allow potential users to investigate the experiences of others. Many vendors of advanced technologies offer remote monitoring and diagnostics capabilities. High maintenance items include major moving parts such as shredders, grinders and feed systems. Facilities should check to see if vendors are well stocked with spare parts and staffed with technical people who can respond quickly to queries or provide urgent repair services.

Level of Commercialization/Ability to Fill Orders

Facilities should find out how quickly a vendor is able to fill orders, and request a list of clients and contact information. Technologies that are fully commercialized may have an extensive network of distributors and technical service centers that are able to respond quickly to urgent needs.

Technology Manufacturer/Vendor Background

Facilities should find out how long a technology manufacturer and/or vendor has been in business and if they are financially stable. It may also be helpful to know the backgrounds of key officers of the company, whether or not they have been cited for environmental or other violations in the past, and any financial or legal liabilities.

Community and Staff Acceptance

Educating the staff about the pros and cons of non-incineration technologies and involving them in the selection process are helpful in order to gain support for a new technology. For a centralized treatment facility, a program to inform the community and to allow them the opportunity to participate in the decision-making process and decide if the technology and treatment facility are appropriate for their community is essential.

How to Use the Inventory

The technologies are shown in alphabetical order in the Inventory section. For each technology, the Inventory section provides as much of the following information as available:

- Name
- Type of Technology
- Contact information
- Location of installations outside the main country of operation

More information may be available in future online versions of the database. To aid the user, the technologies are listed in indexes broken down according to two sets of categories:

- (a) Technologies by Country/Region
- (b) Technologies by Type

Under (a), technologies are shown based on their countries of origin. If a manufacturer or vendor has major offices or installations in other countries, the technology is also listed under those other countries for convenience.

Under (b), the technologies are listed according to the following types of technologies:

- Autoclaves/steam sterilizers
- Microwave technology
- Dry heat systems
- Other: Alkaline hydrolysis, needle or syringe destroyers

Where technologies include shredders/grinders, this is also indicated. It should be noted that these may either be integral to the technology or optional. Companies that offer a waste collection/sterilization/disposal service are listed as service providers under the relevant technology type.

The indexes could be used to screen technologies based on geographical location of the manufacturers or vendors, and the type of technology preferred. Future versions of the database may include other indexes such as by size and throughput capacity.

Global Inventory of Alternative Technologies

Technologies are arranged in alphabetical order by company.

Aborgama Ducelit S.A

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer (service provider)
OFFICE LOCATIONS ADDRESS	Uruguay Cno. Los Ceibos S/N, San Carlos Cp 20 400, Maldonado, Uruguay
PHONE	+598-42-667-828
EMAIL	ducelit@adinet.com.uy
WEB	www.aborgama.com

Acmas Technocracy (Pvt) Ltd.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	India 312-313, Vardhman Capital Mall, Plot No. 10 Local Shopping Complex Gulabi Bagh, Delhi - 110 052, India
PHONE	+91-931-2219738, +91-931-2220851 +91-931-3971681
FAX	+91-11-23646703
EMAIL	info@acmasindia.com
WEB	www.acmasindia.com
OVERSEAS INSTALLATIONS	Africa, Central America, Europe, India,, Middle East

Advanced Precision Fabricators, Inc.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer (service provider)
OFFICE LOCATIONS ADDRESS	USA P.O. Box 580884, Tulsa, OK 74158-0884, USA
PHONE	+1-918-838-7553, +1-800-843-2630
FAX	+1-918-838-3990
EMAIL	contact@apftulsa.com
WEB	www.apftulsa.com

Aegis Bio-Systems

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder
OFFICE LOCATIONS ADDRESS	USA 409 W. Centennial Boulevard, Edmond, OK 73013, USA
PHONE	+1-888-993-1500, +1-405-341-4667
FAX	+1-405-844-9364
EMAIL	dtaylor@aegisco.com
WEB	www.jyd-1500.com

Anchor Autoclave Systems

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	USA
ADDRESS	P.O. Box 19932, Houston, TX 77224, USA
PHONE	+1-713-465-6851
FAX	+1-713-465-9817
EMAIL	anchorinfo@anchorautoclave.com
WEB	www.anchorautoclave.com

Apothecaries Sundries Manufacturing Company

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	India
ADDRESS	ASCO House, I-30 (a) Kirti Nagar, New Delhi 110 015, India
PHONE	+91-11-2542-0779, +91-11-2542-0783 +91-11-2541-0008, +91-11-2542-9634
FAX	+91-11-2542-9633, +91-11-2541-0007
EMAIL	info@ascoindia.com
WEB	www.ascoindia.com

ARTECH Reduction Technologies

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder
OFFICE LOCATIONS	Canada, Spain, UK
<u>Canada (Head Office)</u>	
ADDRESS	1218 South Service Road, Oakville, Ontario, L6L 5T7, Canada
PHONE	+1-905-829-1350, +1-866-440-6599
FAX	+1-905-829-1535
<u>Spain (Sales Office)</u>	
ADDRESS	Joan Marti 65.1r., 08830 Sant boi de Llobregat, Spain
PHONE	+34-93-630-6965
EMAIL	info@artechreduction.com
WEB	www.artechreduction.com
<u>UK (Sales Office)</u>	
ADDRESS	Unit 2, Circle South, Trafford Park Road, Manchester, M17 1NF, UK
PHONE	+44-161-877-1288

Ashwani Diagnostic Equipments Manufacturing Co. (Ademco)

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	India
ADDRESS	122/33, Street No. 5, Old Shanker Nagar, New Delhi 110051, India
PHONE	+91-11-2209-6353, +91-11-2209-4144 +91-11-2209-0997, +91-11-5528-9102 +91-11-5528-9101, +91-11-92127-00304 +91-11-2209-6354, +91-11-98682-04201 +91-11-98103-18019
FAX	+91-11-2209-4144
EMAIL	sales@ademcoindia.com ademco@vsnl.net
WEB	www.ademcoindia.com

Astell Scientific Ltd.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS PHONE	UK Powerscroft Road, Sidcup, Kent DA14 5DT, UK +44-20-8309-2022, +44-20-8309-2023 +44-20-8309-2024
FAX EMAIL WEB	+44-20-8309-2036 sales@astell.com www.astell.com

AWS Clinical Waste

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder (service provider)
OFFICE LOCATIONS ADDRESS PHONE FAX EMAIL WEB	Australia Suite 27, Cleveland House, 120 Bloomfield Street, Cleveland, Queensland 4163, Australia +61-7-3821-1500 +61-7-3821-1525 sales@awsclinical.com www.awsclinical.com

Balcan Engineering Ltd.

TYPE OF TECHNOLOGY	Other (needle remover)
OFFICE LOCATIONS ADDRESS PHONE FAX EMAIL WEB	UK Banovallum Court, Boston Road Industrial Estate, Horncastle, Lincolnshire LN9 6JR, UK +44-1507-528500 +44-1507-528528 info@balcan.co.uk www.balcan.co.uk

Bensons Surgico

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS PHONE FAX EMAIL WEB	India 42, DIF Industrial Area, Kirti Nagar, New Delhi 110 015, India +91-11-2593-2664, +91-11-2515-8759 +91-11-2593-2664, +91-11-2546-4251 bensons@bensonsmedical.com info@bensons.in www.bensonsmedical.com

Bioasset Technologies Pvt. Ltd.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS PHONE FAX EMAIL	India 213, Shree Siddhi Manora, Agashi Road, Virar (W), District Thane, Maharashtra, 401 303, India +91-250-329-8345, +91-250-250-3162 +91-932-537-1009 +91-250-250-3162 bioasset@vsnl.net

Biomedical Disposal, Inc.

TYPE OF TECHNOLOGY	Other (needle remover)
OFFICE LOCATIONS	USA
ADDRESS	3690 Holcomb Bridge Road, Norcross, GA 30092, USA
PHONE	+1-770-300-9595, +1-888-393-9595
FAX	+1-770-300-9599
EMAIL	info@biodisposal.com
WEB	www.biodisposal.com

BioMedical Technology Solutions, Inc.

TYPE OF TECHNOLOGY	Dry heat
OFFICE LOCATIONS	USA
ADDRESS	9800 Mount Pyramid Court, Suite 350, Englewood, CO 80012, USA
PHONE	+1-303-653-0100
FAX	+1-303-653-0120
EMAIL	info@bmtscorp.com dcox@bmtscorp.com
WEB	www.bmtscorp.com

Bioservices Group Inc.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	Canada
ADDRESS	North Bay, Ontario, Canada
PHONE	+1-705-840-5358
FAX	+1-705-494-7880
EMAIL	info@bioservicesgroup.com
WEB	www.bioservicesgroup.com
OVERSEAS INSTALLATIONS	USA

Bondtech Corporation

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	USA
ADDRESS	2400 N. Hwy. 27, Somerset, KY 42503, USA
PHONE	+1-800-414-4231 +1-606-677-2616
FAX	+1-606-676-9157
EMAIL	elsabrown@bondtech.net
OVERSEAS INSTALLATIONS	Argentina, Brazil, Canada, China, Colombia, Costa Rica, Guam, Mexico, Philippines, Puerto Rico, Qatar, South Africa, South Korea, UK, Uruguay

CAVO

TYPE OF TECHNOLOGY	Dry heat/electrothermal (service provider)
OFFICE LOCATIONS	Brazil
ADDRESS	Rua Funchal, 160 - Vila Olímpia, CEP: 04551-903 - São Paulo - SP, Brazil
PHONE	+55-11-3841-5400
FAX	+55-11-3841-5404
WEB	www.cavo.com.br

Cecon Pollutech Systems Limited

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	India
<u>Sales Office</u> ADDRESS	298/207/2, 1st Floor, Laxmi Bhawan (Near Indira Bridge), Nishatganj, Lucknow 226006, India
<u>Head Office</u> ADDRESS	5, Vijaypur, Kamta, Ismailganj, Faizabad Road, Lucknow - 227105, India
PHONE	+91-522-270-0203, +91-522-270-0202
FAX	+91-522-238-6331
EMAIL	cleanair@cecon.in
WEB	www.cecon.in

CERTOCLAV Sterilizer GmbH

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	Austria
ADDRESS	Obere Dorfstrasse 1, A-4050 Traun, Austria
PHONE	+43-7229-689-689
FAX	+43-7229-74-141
EMAIL	certoclav@gruber-kaja.at
WEB	www.certoclav.com

Chevalier Enviro Services Incorporated (CESI)

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer (service provider)
OFFICE LOCATIONS	Philippines
ADDRESS	Km 17 West Service Road Cervantes St., Bormaheco Compound, South Super Highway, Sucat, Paranaque City
PHONE	+632-823-3659, +632-823-4245
FAX	+632-823-3599, -632-776-7042
EMAIL	cheva@pacific.net.ph
WEB	www.chevalier.com/business/cel.htm

Cleanway Technology Corporation

TYPE OF TECHNOLOGY	Autoclaves/steam sterilizers (service provider)
OFFICE LOCATIONS	Philippines
ADDRESS	(Office Address) Herma Building, 94 Scout Rallos Street, Quezon City, Philippines (Plant) Cleanway Cavite Plant, Blk 4, Lot 2, 4-8, Meridian Industrial Park II, Maguyam Road, Silang, Cavite, Philippines
PHONE	+632-922-3421
FAX	+632-929-5306

CMB Maschinenbau und Handels GmbH

TYPE OF TECHNOLOGY	Combined microwave and steam, shredder/grinder
OFFICE LOCATIONS	Austria
ADDRESS	Plabutscherstrasse 115, 8051 Graz, Austria
PHONE	+43-316-685-515-0
FAX	+43-316-685-515-10
WEB	www.christof-group.at/cmb/index.php

Coflex

TYPE OF TECHNOLOGY	Autoclaves/steam sterilizer
OFFICE LOCATIONS	Mexico
ADDRESS	San Ramon 1 40 Tlaquepaque, Jal CP:45610 Mexico
PHONE	+52-33-3601-1940
FAX	+52-33-3601-1939
WEB	www.calentadoresaceite.com/aclaves.htm

Compass Waste Services

TYPE OF TECHNOLOGY	Autoclaves/steam sterilizers, shredder/grinder (service provider)
OFFICE LOCATIONS	South Africa
ADDRESS	PO Box 1 690, Westville, 3630, South Africa
PHONE	+27-31-267-9700
FAX	+27-31-267-9732
EMAIL	compass@compass.za.net
WEB	www.compass.za.net

Crawford Diversified Services

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	USA
ADDRESS	8006 Gravois Road, St. Louis, MO 63123, USA
PHONE	+1-314-353-4267
	+1-866-598-7801
EMAIL	customerservice@crawforddiversified.com
WEB	www.crawforddiversified.com

Crusader Engineering

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	New Zealand
ADDRESS	17 Lorien Place, East Tamaki, Auckland, New Zealand
PHONE	+64-9-2740811
FAX	+64-9-2749898
WEB	www.cruseng.co.nz
OVERSEAS INSTALLATIONS	Europe, Australasia and South East Asia

Crystal Cache

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	USA
ADDRESS	PO Box 240828, Douglas, AK 99824-0828, USA
PHONE	1-907-364-2506.
WEB	www.crystalcache.com

Ecodas

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder
OFFICE LOCATIONS	France
ADDRESS	28, rue Sébastopol - 59100 Roubaix - France
PHONE	+333-20-70-98-65
FAX	+333-20-36-28-05
EMAIL	contact@ecodas.com

OVERSEAS INSTALLATIONS	Algeria, Argentina, Brazil, Cyprus, Denmark, Egypt, France, Guyana, Honduras, Hungary, Japan, Lebanon, Morocco, Mexico, New Caledonia, Poland, Reunion Island, Russia, Saint Lucia, Spain, Tunisia, UK
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Ecolotec

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder
OFFICE LOCATIONS	Kuwait and USA
<u>Kuwait</u> ADDRESS	First Floor / Bahman Building Ahmad Al-Jaber Street Kuwait City Kuwait
PHONE	+65-965-249-7711
FAX	+65-965-249-7700
EMAIL	ali.khajah@fadak-holding.com
<u>USA</u> ADDRESS	PO Box 5046, Hunstville, AL 35814, USA
PHONE	+1-256-895-9363
FAX	+1-256-895-9392
WEB	www.ecolotec.com

Ecosteryl AMB

TYPE OF TECHNOLOGY	Microwave, shredder/grinder
OFFICE LOCATIONS	Belgium
ADDRESS	Avenue Wilson 622, B - 7012 Mons, Belgium
PHONE	+32-65-82-26-81
FAX	+32-65-82-47-98
EMAIL	amebo@skynet.be
WEB	www.ecosteryl.be
OVERSEAS INSTALLATIONS	Africa, Asia, France, and Middle East

Environmental Tectonics Corporation

TYPE OF TECHNOLOGY	Autoclaves/steam sterilizer
OFFICE LOCATIONS	USA
ADDRESS	125 James Way, Southampton, PA 18966, USA
PHONE	+1-215-355-9100
FAX	+1-215-357-4000
EMAIL	sterilizers@etcusa.com
WEB	www.etcsterilizer.com

Environmental Waste International

TYPE OF TECHNOLOGY	Microwave, shredder/grinder
OFFICE LOCATIONS	Canada
ADDRESS	283 Station Street, Ajax, Ontario L1S 1S3, Canada
PHONE	+1-905-686-8689
FAX	+1-905-428-8730
EMAIL	sales@ewmc.com
WEB	www.ewmc.com

EnviroPack Development Corporation

TYPE OF TECHNOLOGY	Other (needle remover)
OFFICE LOCATIONS	USA
ADDRESS	224-S Pegasus Avenue, Northvale, NJ 07647, USA
PHONE	+1-201-767-6040, +1-800-978-8006

EnviroPack Development Corporation

FAX +1-201-784-0620
 EMAIL Info@NeedleEater.com
 WEB www.needleeater.com

Erdwich Zerkleinerungssysteme GmbH

TYPE OF TECHNOLOGY Autoclave/steam sterilizer, shredder/grinder

OFFICE LOCATIONS Germany
 ADDRESS Kolpingstrasse 8, D-86916 Kaufering, Germany, or
 Postfach 65, D-86916 Kaufering, Germany
 PHONE +49-08191-9652-0
 FAX +49-08191-9652-16
 EMAIL infoline@erdwich.de
 WEB www.erdwich.de

Evermed Tech Co., Ltd.

TYPE OF TECHNOLOGY Autoclave/steam sterilizer

OFFICE LOCATIONS Taiwan
 ADDRESS P.O. Box 487, Kaohsiung, Taiwan.
 PHONE +886-7-381-4010
 FAX +886-7-381-4013
 EMAIL sales@ever-med.net
 WEB www.ever-med.net

Fairdeal Traders

TYPE OF TECHNOLOGY Autoclave/steam sterilizer

OFFICE LOCATIONS India
 ADDRESS 14, Kanshi Nagar, Model Town, Ambala,
 Haryana-134 003, India
 PHONE +91-171-252-0016, +91-941-602-0016
 +91-989-675-8880
 FAX +91-171-252-1279
 EMAIL sales@fairdealtraders.com
 WEB www.fairdealtraders.com

George K. Moss Co., Inc.

TYPE OF TECHNOLOGY Autoclave/steam sterilizer, shredder/grinder

OFFICE LOCATIONS USA
 ADDRESS P.O. Box 380156, Birmingham, AL 35238, USA
 PHONE +1-205-408-2929
 FAX +1-205-408-4337
 WEB www.gkmoss.com

Global Corporation

TYPE OF TECHNOLOGY Autoclave/steam sterilizer

OFFICE LOCATIONS India
 ADDRESS A/9, Shukla Estate, Opposite Veena Dalvai Industrial Estate,
 Off S. Road, Oshiwara, Jogeshwari (West), Mumbai,
 Maharashtra - 400 102, India
 PHONE +91-22-26787399
 FAX +91-22-56959625
 EMAIL global_corporation2000@yahoo.co.in

GOK Consulting AG

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder
OFFICE LOCATIONS ADDRESS	Germany GÖK Consulting AG, Am Schlangengraben 20, 13597 Berlin, Germany
PHONE	+49-30-351-99-680
FAX	+49-30-351-99-640
WEB	www.goek-consulting.de

Haat Incinerators Pvt Ltd

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder
OFFICE LOCATIONS ADDRESS	India 35 B&C, Jigani Industrial Area, Anekal Taluk, Bangalore - 562 106, India
PHONE	+91-80-7825449
FAX	+91-80-7825299
EMAIL	sales@haat-india.com
WEB	www.haat-india.com/autoclave.htm

HMG India

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	India F-201, Country Park, Opp. Tata Steel Ltd., Off Western Express Highway, Dattapada Road, Borivli (E), Mumbai - 400066, Maharashtra, India
PHONE	+91-932-463-7854, +91-932-854-9059 +91-932-463-7854, +91-986-733-9190
FAX	+91-222-854-9059, +91-222-840-8699
EMAIL	response@hmgind.com hmgind@vsnl.net
WEB	www.hmgind.com

Hydroclave Systems Corp.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	Canada 662 Norris Court, Kingston, Ontario, K7P 2R9, Canada
PHONE	+1-613-389-8373
FAX	+1-613-389-8554
EMAIL	inquire@hydroclave.com
WEB	www.hydroclave.com
OVERSEAS INSTALLATIONS	Argentina, China, Egypt, Greece, India, Iran, Lebanon, Mexico, Philippines, UK, USA

Indian Instruments Manufacturing Company

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	India 208, Bipin Behari Ganguly Street, (Bowbazar Street), Calcutta - 700012, India
PHONE	+91-22-41-1848, +91-22-41-7257 +91-22-41-5969, +91-22-41-9349
FAX	+91-33-241-5970
EMAIL	iimc@cal.vsnl.net.in

Indian Scientific Instruments Company

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	India
ADDRESS	A1/345, Gali No. 15, Gamri Extension, Delhi - 110 053, India
PHONE	+91-11-22943481, +91-981-147-4653, +91-981-3106-7501
EMAIL	pawar_kailash@yahoo.com
WEB	www.isicindia.com

Industrial Olmar, S.A.

TYPE OF TECHNOLOGY	Autoclaves/steam sterilizer
OFFICE LOCATIONS	Spain
ADDRESS	Lealtad 13, 33212 Gijón, Spain
PHONE	+34-985-321-700
FAX	+34-985-323-831
EMAIL	info@olmar.com
WEB	www.olmar.com

Iran Zeb Zaeem

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	Iran
ADDRESS	No. 1/54, East Jooybar St., Shahid Ayat St., Narmak, Tehran, Iran
PHONE	+98-21-7790-0568
FAX	+98-21-7790-9263
EMAIL	tebzaeem@yahoo.com
WEB	www.zaeemmed.com

Jain Hydraulics Pvt. Ltd.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder
OFFICE LOCATIONS	India
ADDRESS	10066 Multani Dhanda, Street No. 1, 1st Floor, Paharganj, New Delhi - 110055, India
PHONE	+91-11-236-10291
FAX	+91-11-255-04343
EMAIL	info@jainhydraulics.com
WEB	www.jainhydraulics.com/wastester.html

KC MediWaste

TYPE OF TECHNOLOGY	Dry heat, shredder/grinder
OFFICE LOCATIONS	USA
ADDRESS	4219 University Boulevard, Dallas, TX 75205, USA
PHONE	+1-214-528-8900
FAX	+1-214-528-0467
EMAIL	kcmedwast@aol.com

Komar Industries

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder
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OFFICE LOCATIONS	USA
ADDRESS	4425 Marketing Place, Groveport, OH 43125, USA
PHONE	+1-614-836-2366
FAX	+1-614-836-9870
WEB	www.komarindustries.com

Liberty Welding & Iron Works Company

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
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OFFICE LOCATIONS	USA
ADDRESS	2618 Edenborn Ave., Suite C, Metairie, LA 70002, USA
PHONE	+1-504-457-3200
FAX	+1-504-457-3204
EMAIL	sales@liberty-welding.com
WEB	www.liberty-welding.com

Life Steriware

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
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OFFICE LOCATIONS	India
ADDRESS	77 A/18, Dilshad Garden, Industrial Area, Delhi-110095, India
PHONE	+91-11-2213-0382, +91-921-353-5699 +91-921-347-8708, +91-986-820-6285
FAX	+91-11-2212-7551
EMAIL	info@stericlave.com sales@stericlave.com
WEB	www.indian-autoclaves-manufacturers.com

Logmed Technologie GmbH

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder
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OFFICE LOCATIONS	Germany
ADDRESS	Brehnaer Strasse 6, D - 06 188 Landsberg, Germany
PHONE	+49-34-602-403-10
FAX	+49-34-602-403-111
EMAIL	logmed-landsberg@t-online.de
WEB	www.logmed.de
OVERSEAS INSTALLATIONS	Germany, two other countries in Europe, South Africa

Machinfabrik

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
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OFFICE LOCATIONS	India
ADDRESS	B-12, Arjun Centre, B.S. Devshi Marg, Govandi, Mumbai, 400 088, Maharashtra, India
PHONE	+91-022-556-0947
FAX	+91-022-556-0569
EMAIL	pharma@machinfabrik.com
WEB	www.machinfabrik.com

Mark-Costello Company

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	USA
ADDRESS	1145 East Dominguez Street, Carson, CA 90746, USA
PHONE	+1-310-637-1851
FAX	+1-310-762-2330
WEB	www.mark-costello.com

Market Forge Industries, Inc.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	USA
ADDRESS	35 Garvey Street, Everett, MA 02149, USA
PHONE	+1-617-387-4100
FAX	+1-617-387-4456
EMAIL	custserv@mfii.com
WEB	www.mfii.com

Maschinenvertrieb fur Umwelttechnik GmbH

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder
OFFICE LOCATIONS	Slovenia
ADDRESS	Mollier, Opekarniška 3, 3000 Celje, Slovenia
PHONE	+386-3-4288-400
FAX	+386-3-4288-402
WEB	www.mollier.si
OVERSEAS INSTALLATIONS	Poland

Matachana Group

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	Spain
ADDRESS	Almogavares, 174, 08018 Barcelona, Spain
PHONE	+34-93-486 87-00
FAX	+34-93-309 86-92
EMAIL	int@matachana.com
WEB	www.matachana.com
OVERSEAS INSTALLATIONS	Over 60 countries

McGill AirPressure LLC

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	USA
ADDRESS	1779 Refugee Road, Columbus, Ohio 43207, USA
PHONE	+1-614-443-0192
FAX	+1-614-542-2616
EMAIL	sales@mcgillairpressure.com
WEB	www.mcgillairpressure.com

Medam B.A. Srl

TYPE OF TECHNOLOGY	Microwave, shredder/grinder
OFFICE LOCATIONS	Argentina, Mexico

Argentina Office

ADDRESS 25 de Mayo 393 5th "B" (1002) Capital Federal, Argentina
 PHONE +54-11-4343-4932, +54-340-49-1814
 +54-11-4246-8952, +54-340-49-1818
 EMAIL medam@termogenesis.com.ar
 WEB www.medam.com.ar

Mexico Office

ADDRESS Calle Norte 79 A 235 E, Colonia Claveria,
 02080, Azcapotzalco, Distrito Federal, Mexico
 PHONE +52-5390-0052, +52-5390-5057
 WEB www.medam.net

Medical Innovations, Inc.

TYPE OF TECHNOLOGY Other (syringe melter)

OFFICE LOCATIONS USA
 ADDRESS P.O. Box 148, Wayland, MA 01778, USA
 PHONE +1-508-358-8099
 FAX +1-508-358-2131

Melco Steel, Inc.

TYPE OF TECHNOLOGY Autoclave/steam sterilizer

OFFICE LOCATIONS USA
 ADDRESS 1100 W. Foothill Blvd., Azusa, CA 91702, USA
 PHONE +1-626-334-7875
 FAX +1-626-334-6799
 EMAIL info@melcosteel.com
 WEB www.melcosteel.com

Metan Medikal Teknik

TYPE OF TECHNOLOGY Autoclave/steam sterilizer

OFFICE LOCATIONS Turkey
 ADDRESS Cinnah Caddesi Mesnevi Sokak No. 22/8, Cankatya,
 06690 Ankara, Turkey
 PHONE +90-312-440-70-07
 FAX +90-312-440-70-09
 EMAIL info@metan.com.tr
 WEB www.metan.com.tr

Meteka GmbH

TYPE OF TECHNOLOGY Microwave

OFFICE LOCATIONS Austria
 ADDRESS A-8750 Judenburg, Viktor-Kaplan-Straße 7, Austria
 PHONE +43-3572-85-166
 FAX +43-3572-85-166-6
 EMAIL info@meteka.com
 WEB www.meteka.com

MWTS Ambiental

TYPE OF TECHNOLOGY Autoclave/steam sterilizer, shredder/grinder
 (service provider)

OFFICE LOCATIONS Brazil

MWTS Ambiental (continued)

ADDRESS	Av. Prefeito Antonio Tavares Leite No. 381, CEP 13803-330 - Mogi Mirim - SP, Brazil
PHONE	+55-19-3805-7656, +55-19-862-4764, +55-19-9763-1057
FAX	+55-19-3806-3282
EMAIL	mwts@mwts.ind.br
WEB	www.mwts.ind.br

Naugra Export

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	India 6148/6, Guru Nanak Marg, Ambala Cantt, Haryana, India
PHONE	+91-171-2643080, +91-171-5006677
FAX	+91-171-2601773
EMAIL	sales@naugraexport.com
WEB	www.naugraexport.com

Neelam Industries

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	India Plot No 3735, Behind New Nirma, Phase IV, Gidc, Vatva, Ahmedabad-382 445, Gujarat, India
PHONE	+91-79-25840049, +91-79-25842653 +91-79-55237536, +91-98-24314469 +91-99-25170468
FAX	+91-79-25842894
EMAIL	neelam@neelampharmamech.com chiku_chirag2001@yahoo.com
WEB	www.neelampharmamech.com

Newster Srl

TYPE OF TECHNOLOGY	Dry heat, shredder/grinder
OFFICE LOCATIONS ADDRESS	Italy Via Montalbano, 1377/V - 47842 S.Giovanni in Marignano (RN), Italy
PHONE	+378-0549-960576
FAX	+378-0549-960585
EMAIL	first@omniway.sm
WEB	www.newster.sm
OVERSEAS INSTALLATIONS	Belarus, Bulgaria, Croatia, Greece, Kazakhstan, Dominican Republic, Poland, Russia and Tunisia

O.P. & Brothers Scientific Works

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	India 312, Vardhman Capital Mall, Plot No. 10 Local Shopping Complex Gulabi Bagh, Delhi - 110 052, India

PHONE	+91-11-2294-2133, +91-11-2294-3508 +91-981-054-8909, +91-935-056-5689 +91-931-397-1681
FAX	+91-11-2364-6703
EMAIL	info@opbrothers.com sales@opbrothers.com obromax@yahoo.com
WEB	www.opbrothers.com

Oppici S.A.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	Chile, USA
Chile	
ADDRESS	Vicuña Mackenna No.98, Providencia, Santiago, Chile
PHONE	+56-2-222-1893
FAX	+56-2-634-3588
EMAIL	ventasgastronomicas@oppici.cl ventasclinicas@oppici.cl jeescuti@oppici.cl
WEB	www.oppici.cl.com
USA	
ADDRESS	Oppici USA, James E. Escuti, P. O. Box 3706, Cherry Hill, NJ 08034, USA
WEB	www.oppiciusa.com

PAE Environmental, Inc.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer (service provider)
OFFICE LOCATIONS	Philippines
ADDRESS	(Office Address) 908 ALPAP II Building Trade St. corner Investment Drive Madrigal Business Park, Alabang, Muntinlupa (Plant) General Emilio Aguinaldo Memorial Hospital Compound Trece Martires, Cavite
PHONE	+632-842-7087, +632-842-7177
FAX	+632-842-7154

Pollution Abatement Systems Specialists, Inc.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder (service provider)
OFFICE LOCATIONS	Philippines
ADDRESS	2nd Level, Waterfront Hotel, Kahug Salinas Drive, Cebu City, Philippines
PHONE	+632-32-2342519, +632-32-2342517 +632-32-2342515
FAX	+632-32-2342523

PT Grand Kartech

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	Indonesia
ADDRESS	PJS Building Jl. Rawa Bali II No. 7, Pulogadung Industrial Estate, Jakarta 13930, Indonesia
PHONE	+62-21-4600228, +62-361-7470473 +62-24-7608750, +62-361-7470474 +62-31-8494911, +62-542-875360 +62-31-8492807, +62-542-878344

PT Grand Kartech (continued)

PHONE(continued)	+62-24-70781660
EMAIL	grand@e-steamboilers.com gk_bali@e-steamboilers.com bpn@e-doctorvalve.com, gk_smg@e-steamboilers.com pjssby@e-steamboilers.com
WEB	www.e-steamboilers.com

Pulse Medika

TYPE OF TECHNOLOGY	Microwave
OFFICE LOCATIONS ADDRESS	India 210, Ashirwad Commercial Complex, D-1, Green Park, New Delhi – 110016, India
PHONE	+91-11-2686-3236, +91-11-2686-3503 +91-11-2686-8878
FAX	+91-11-2686-8041, +91-11-2696-8517
EMAIL	pulse@promedgroup.com
WEB	www.pulsemedika.com

Rajas Enterprises

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	India Post Office Kuldeep Nagar, Nanhera Chowk, Nanhera, Ambala Cantt.-133001, Haryana, India
PHONE	+91-171-2611337
FAX	+91-171-2610404, +91-171-2641025
EMAIL	rajasenterprises@rediffmail.com rajasenterprises@hotmail.com
WEB	www.rajasenterprises.com

Red Bag Solutions

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder
OFFICE LOCATIONS ADDRESS	USA 3431 Benson Avenue, Suite 100, Baltimore, MD 21227, USA
PHONE	+1-443-524-4245, +1-877-973-3224
FAX	+1-443-524-4250
EMAIL	info@redbag.com
WEB	www.redbag.com

Reliance Instruments Corporation

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	India 1986, H-Block, 5th Street, 12th Main Road, Anna Nagar (west), Chennai, Tamil Nadu, India
PHONE	+91-44-2616-1920,
FAX	+91-44-2616-1920
EMAIL	reico@relianceinstruments.com
WEB	www.relianceinstruments.com

REXMED Industries Co., Ltd.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
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OFFICE LOCATIONS	Taiwan
ADDRESS	P.O. Box 487, Kaohsiung, Taiwan
PHONE	+886-7-3814010
FAX	+886-7-3814013
EMAIL	info@rexmed.com sales@rexmed.com
WEB	www.rexmed.com

SafeWaste Inc.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer (service provider)
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OFFICE LOCATIONS	Philippines
ADDRESS	3 Pallosapis St., Greenville, City of San Fernando, Pampanga 2000, Philippines
PHONE	+63 45 - 963 22 19
FAX	+63 45 - 963 22 19
EMAIL	safe_waste@yahoo.com
WEB	www.safewasteasia.com

San-I-Pak, Inc.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
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OFFICE LOCATIONS	USA
ADDRESS	23536 South Bird Road, Tracy, CA 95376, USA or PO Box 1183, Tracy, CA 95378-1183, USA
PHONE	+1-209-836-2311
FAX	+1-209-836-2337
EMAIL	sanipak@sanipak.com
WEB	www.sanipak.com

Sanitec Industries

TYPE OF TECHNOLOGY	Microwave, shredder/grinder
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OFFICE LOCATIONS	USA
ADDRESS	1250 24th St. NW, Suite 350, Washington, DC 20007, USA
PHONE	+1-202-263-3630
FAX	+1-202-466-3079
EMAIL	info@sanitecind.com
WEB	www.sanitecind.com
OVERSEAS INSTALLATIONS	Brazil, Canada, Japan, Korea, Philippines, Saudi Arabia, United Kingdom

SANYO Scientific

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
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OFFICE LOCATIONS	Canada, Japan, USA
Canada	
ADDRESS	SANYO Canada, Ltd. 300 Applewood Crescent, Concord, Ontario L4K 5C7, Canada
PHONE	+1-905-760-4025
FAX	+1-905-760-9945

SANYO Scientific (continued)

<u>Japan</u>	
ADDRESS	SANYO Electric Co., Ltd. 5-5, Keihan-Hondori 2-chome, Moriguchi City, Osaka 570-8677, Japan
PHONE	+81-6-6991-1181
<u>USA</u>	
ADDRESS	SANYO E & E America Co. 1062 Thorndale Avenue, Bensenville, IL 60106, USA
PHONE	+1-800-858-8442
FAX	+1-630-238-0074
EMAIL	info@sss.sanyo.com
WEB	www.global-sanyo.com and www.sanyo.com

Saudi Gulf Environmental Protection Company (SEPCO Environment)

TYPE OF TECHNOLOGY	Microwave, shredder/grinder
OFFICE LOCATIONS	Saudi Arabia
ADDRESS	PO Box 3394, Jeddah 21471, Saudi Arabia
PHONE	+966-2-6060890
FAX	+966-2-6060378
EMAIL	info@sepcoenvironment.com
WEB	www.sepcoenvironment.com/home_eng.htm

Science Enterprises / SCIENTECH

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	India
ADDRESS	5793, Street No. 7, Jawahar Nagar, (Near Kamla Nagar), New Delhi, Delhi - 110 007, India
PHONE	+91-11-23850782, +91-11-27562732
FAX	+91-11-23850588
EMAIL	scientech64@yahoo.com
WEB	www.indiamart.com/scientech

Shiv Dial Sud & Sons

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	India
ADDRESS	23, Industrial Estate, Ambala Cantt. 133 006, Haryana, India
PHONE	+91-171-2699537, +91-171-2699297 +91-171-2699903
FAX	+91-171-2699637, +91-171-2699154
EMAIL	email shivsons@vsnl.com
WEB	www.shivsons.com

Silon Ambiental

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	Brazil
ADDRESS	Av. Angélica, 2632 8º andar - conj. 82CEP: 01228-200 - Consolação São Paulo - SP Brazil
PHONE	+55-11-3217-5777
FAX	+55-11-3217-5792
EMAIL	silcon@silcon.com.br
WEB	www.silcon.com.br/autoclave.php

Sistemas Ambientales S.A.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder
OFFICE LOCATIONS ADDRESS	Argentina Azopardo 9980C.P.: 7600 Mar del Plata Buenos Aires, Argentina
PHONE	+54-223-465-2180
EMAIL	info@sistambi.com.ar
WEB	www.sistemasambientales.com.ar

Stericomat Systems GmbH

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder
OFFICE LOCATIONS ADDRESS	Germany Brunirode 64, D-30880 Laatzen, Germany
PHONE	+49-511-98251-56
FAX	+49-511-98251-55
EMAIL	info@stericomat.com
WEB	www.stericomat.com
OVERSEAS INSTALLATIONS	Mexico, Poland, Russia

Stericycle, Inc.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, dry heat, shredder/grinder (service provider)
OFFICE LOCATIONS ADDRESS	USA 28161 N. Keith Drive, Lake Forest, IL 60045, USA
PHONE	+1-847-367-5910, +1-800-643-0240
FAX	+1-847-367-9493
EMAIL	sales@stericycle.com
WEB	www.stericycle.com
OVERSEAS INSTALLATIONS	Canada, Mexico, Puerto Rico

STERIFANT Vertriebs GmbH

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, microwave, shredder/grinder
OFFICE LOCATIONS ADDRESS	Luxembourg 12, Rue Jean Engling, L-1466, Luxembourg
PHONE	+352-43-22-22-1
FAX	+352-42-60-59
EMAIL	sterilux@pt.lu
WEB	www.sterifant.com

Steriliser Services Ltd.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	New Zealand PO Box 220, Albany Village, Auckland, New Zealand
PHONE	+64-9-415-8840, +64-25-455-977
FAX	+64-9-415-8840
WEB	www.steriliserservices.co.nz

Sterilisers New Zealand Ltd.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	New Zealand 17 Lorien Place, East Tamaki, P.O. Box 58-094, Greenmount, Auckland, New Zealand
PHONE	+64-9-274-6950
FAX	+64-9- 274-9898
WEB	www.sterilisersnz.com

Steritech – ECPS SA

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	France ZA du Kochersberg, 1, Rue de Furchhausen, 67700 Saverne, France
PHONE	+33-(0) 388-710-433
FAX	+33-(0) 388-710-152
EMAIL	info@steritech.eu.com
WEB	www.steritech.fr

Sterlix Ambiental

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	Brazil Estrada Municipal Santa Maria, S/N CEP 13800-000 Mogi Mirim – Sao Paulo, Brazil
PHONE	+55-19-3806-3899, +55-19-9603-5719 +55-19-3862-4764, +55-19-9763-1057
FAX	+55-19-3806-3282
EMAIL	sterlix@sterlix.com.br
WEB	www.sterlix.com.br

Swingstar

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	India 8 D.P.K. Compound, Khairani Road, Sakinaka, Mumbai-400 072, Maharashtra State, India
PHONE	+91-22-3953-4476
FAX	+91-22-2511-1217
EMAIL	info@swingstargroup.org
WEB	www.swingstargroup.com

Technologies Environnement et Médical (T.E.M.)

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	France Hôtel d'entreprise, Zone Industrielle La Pradelle, Voie La Pradelle, 31190, Auterive, France
PHONE	+33-5-34-28-02-34
FAX	+33-5-34-28-02-37
EMAIL	info@steriflash.fr
WEB	www.steriflash.fr

Tempico, Inc.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder
OFFICE LOCATIONS	USA
ADDRESS	1700 West Church Street, Suite C, Hammond, LA 70401, USA
PHONE	+1-985-429-9929
FAX	+1-800-728-9006 (US only) +1-985-429-9740
EMAIL	tempico@tempico.com
WEB	www.tempico.com

Thermal Equipment Corporation

TYPE OF TECHNOLOGY	autoclave/steam sterilizer, shredder/grinder
OFFICE LOCATIONS	USA
ADDRESS	1301 West 228th Street, Torrance, CA 90501, USA
PHONE	+1-310-328-6600
FAX	+1-310-320-2692
WEB	www.thermalequipment.com
OVERSEAS INSTALLATIONS	Philippines, Turkey

Toshibha (India)

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	India
ADDRESS	2/2, DSIDC Community Work Centre, J-Block, Shakurpur, Delhi - 110 034, India
PHONE	+91-11-2718-4490, +91-11-2710-1383 +91-11-5515-4422, +91-981-123-6960 +91-981-137-7080
FAX	+91-11-27108890
EMAIL	info@toshibha.com
WEB	www.toshibha.com

Tuttbauer Company Ltd.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS	Netherlands, Russia, USA,
<u>Netherlands</u>	
ADDRESS	Tuttbauer Europe b.v., Paardeweide 36 P.O.B. 7191, 4800 GD Breda, The Netherlands
PHONE	+31-76-542-3510
FAX	+31-76-542-3540
EMAIL	Netherlands info@tuttbauer.nl
<u>Russia</u>	
ADDRESS	Mr. Alexander Novgorodov, Rosslyn Medical, 12, Kranopresnenskaya Nab., Office 1708, World Trade Center, 123610 Moscow, Russia
PHONE	+7-095-258-2330
FAX	+7-095-258-2438
EMAIL	alex@rosslynmedical.com
<u>USA</u>	
ADDRESS	25 Power Drive, Hauppauge, NY 11788, USA
PHONE	+1-631-737-4850, 1-800-624-5836
FAX	+1-631-737-0720
EMAIL	info@tuttbauer.com
WEB	www.tuttbauer.com
OVERSEAS INSTALLATIONS	Africa, Asia, Australasia, Central America, Latin America, Middle East, South East Asia

Urbaser

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer (service provider)
OFFICE LOCATIONS	Dominican Republic, Egypt, France, Greece, Mexico, Morocco, Portugal, Puerto Rico, Spain, UK, and Venezuela
<u>Dominican Republic</u> ADDRESS	Avda. Olimpica #5 - La Barraquita, Santiago de los Caballeros, Dominican Republic
PHONE	+1809-247-75-95
FAX	+1809-247-75-96
<u>Egypt</u> ADDRESS	Garb Garage, Cornish el Nil (before Embaba Bridge, in front of Nile City Towers), Boulac, El Cairo, Egypt
PHONE	+202-575-6655
FAX	+202-579-7444
<u>France</u> ADDRESS	21, rue Jules Guesde, 69230 Saint Genis-Laval Lyon, France
PHONE	+ 33-472-666-000
FAX	+ 33-472-666-009
<u>Greece</u> ADDRESS	61 Maranthonas Av, 15344 Garakas Attikis, Greece
PHONE	+3021-06-048-393
FAX	+3021-06-048-393
<u>Mexico</u> PHONE	+52662-268-11-02
<u>Morocco</u> ADDRESS	50 av. Capitaine Sidi Omar Elaissaoui, Cite OLMSouissi II, 36415 Rabat, Morocco
PHONE	+212-376-500-11
FAX	+212-376-399-43
<u>Portugal</u> ADDRESS	Av Julio Dinis, 2 - 1 Esq, 1050-131 Lisboa, Portugal
PHONE	+351-21-799-58-80
FAX	+351-21-795-55-63
<u>Puerto Rico</u> ADDRESS	PO Box 13487, San Juan PR, 908, Puerto Rico
PHONE	+1787-232-8070
<u>Spain</u> ADDRESS	C/Albasanz 16 1, 28037 Madrid, Spain
PHONE	+34-91-121-8000
FAX	+34-91-304-1522
<u>UK</u> ADDRESS	103 High Street, Evesham, Worcestershire, WR11 4DN, UK
PHONE	+44-1386-42-5240
FAX	+44-1386-44-6757
<u>Venezuela</u> ADDRESS	Torre Movilnet, Piso 6, Oficina 6-4, Paseo Cabriales - Sector Kerdel, Valencia, Estado Carabobo, Venezuela
PHONE	+58-241-823-4210
FAX	+58-241-823-4210
EMAIL	info@urbaser.com
WEB	www.urbaser.com

Vaiktron

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	India 218-A, Bharat Indl. Est, Lake Road, Bhandup West, Mumbai, Maharashtra, 400078, India
PHONE	+91-22-555-51693 +91-22-555-51694
FAX	+91-22-559-87590
EMAIL	sthosar@vsnl.net vaiktron@rediffmail.com
WEB	www.indiamart.com/vaiktron

Vietronics Dong Da JSC

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	Vietnam 56 Nguyen Chi Thanh, Dong Da Dist, Hanoi, Vietnam
PHONE	+84-4-834-4305
FAX	+84-4-835-9201
EMAIL	vietronics@vnn.vn vnc@vietronics.com.vn
WEB	www.vietronics.com.vn

WEBECO Hygiene in Medizin und Labor GmbH & Co. KG

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	Germany Mühlenstraße 38, D-23611 Bad Schwartau, Germany
PHONE	+49-451-28072-0
FAX	+49-451-28072-53
EMAIL	vertrieb@webeco.de
WEB	www.webeco.com

Wisconsin Aluminum Foundry Co.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer
OFFICE LOCATIONS ADDRESS	USA P.O. Box 246, Manitowoc, WI 54221-0246, USA
PHONE	+1-920-682-8286
FAX	+1-920-682-7285
WEB	www.wafco.com

WR2, Inc.

TYPE OF TECHNOLOGY	Autoclave/steam sterilizer, shredder/grinder; Other (Alkaline hydrolysis)
OFFICE LOCATIONS ADDRESS	UK, USA UK (for Europe, Africa, Middle East) WR2 Ltd, Mirren Court One, 119 Renfrew Road, Paisley, PA3 4EA, Scotland
PHONE	+44-141-842-4360
FAX	+44-141-887-4624
EMAIL	europe@wr2.net

WR2, Inc. (continued)

<u>USA</u>	
ADDRESS	2910-D Fortune Circle West, Indianapolis, IN 46241, USA
PHONE	+1-317-484-4200
	+1-877-749-2783
FAX	+1 317-484-4201
EMAIL	sales@wr2.net
WEB	www.wr2.net

WSF Industries, Inc.

<u>TYPE OF TECHNOLOGY</u>	Autoclave/steam sterilizer
<u>OFFICE LOCATIONS</u>	USA
ADDRESS	P.O. Box 400, Buffalo, NY 14217, USA
PHONE	+1-800-874-8265, +1-716-692-4930
FAX	+1-716-692-4135
EMAIL	sales@wsfindustries.com
WEB	www.wsfindustries.com

Yamato Scientific Co., Ltd.

<u>TYPE OF TECHNOLOGY</u>	Autoclave/steam sterilizer
<u>OFFICE LOCATIONS</u>	China, Japan (HQ), Taiwan, USA
<u>China</u>	
ADDRESS	Yamato Scientific Shanghai Corporation, Unit 1018, Office Building, Shanghai Pine City Hotel, No.777, Zhaojiabang Road, Shanghai 200032, China.
PHONE	+86-21-6443-5319
FAX	+86-21-5452-0268
<u>Japan</u>	
ADDRESS	Headquarters, 2-1-6, Nihonbashi Honcho, Chuo-ku, Tokyo, 103-8432, Japan
PHONE	+81-3-3231-1124
FAX	+81-3-3231-1144
EMAIL	english-website@yamato-net.co.jp
WEB	www.yamato-net.co.jp
<u>Taiwan</u>	
ADDRESS	Yamato Scientific Taiwan Inc., 12F.-1, No.30, Beiping E. Rd., Jhongjheng District, Taipei City 100, Taiwan
PHONE	+886-2-2394-2057
FAX	+886-2-2394-2180
<u>USA</u>	
ADDRESS	Yamato Scientific America, Inc., 925 Walsh Ave., Santa Clara, CA 95050, USA
PHONE	+1-408-235-7725
FAX	+1-408-235-7730

Index Of Technologies By Country/Region

AFRICA	Acmas Technocracy (Pvt) Ltd. WR2, Inc.	Autoclave/steam sterilizer Autoclave/steam sterilizer, shredder/grinder
	WR2, Inc. Ecosteryl AMB Tuttnauer	Other (alkaline hydrolysis) Microwave, shredder/grinder Autoclave/steam sterilizer
ALGERIA	Ecodas	Autoclave/steam sterilizer, shredder/grinder
ARGENTINA	Bondtech Corporation Ecodas	Autoclave/steam sterilizer Autoclave/steam sterilizer, shredder/grinder
	Hydroclave Systems Corp. Medam B.A. Srl Sistemas Ambientales S.A.	Autoclave/steam sterilizer Dry Heat, shredder/grinder Autoclave/steam sterilizer, shredder/grinder
ASIA	Ecosteryl AMB Tuttnauer	Microwave, shredder/grinder Autoclave/steam sterilizer
AUSTRALASIA	Crusader Engineering Tuttnauer Company Ltd.	Autoclave/steam sterilizer Autoclave/steam sterilizer
AUSTRALIA	AWS Clinical Waste	Autoclave/steam sterilizer, shredder/grinder (service provider)
AUSTRIA	CERTOCLAV Sterilizer GmbH CMB Maschinenbau und Handels GmbH	Autoclave/steam sterilizer Combined microwave and steam, shredder/grinder
	Meteka GmbH	Microwave
BELGIUM	Ecosteryl AMB	Microwave, shredder/grinder
BRAZIL	Bondtech Corporation CAVO	Autoclave/steam sterilizer Dry heat/electrothermal (service provider)
	Ecodas	Autoclave/steam sterilizer, shredder/grinder
	MWTS Ambiental	Autoclave/steam sterilizer, shredder/grinder (service provider)

BRAZIL (continued)	Sanitec Industries Silon Ambiental Sterlix Ambiental	Microwave, shredder/grinder Autoclave/steam sterilizer Autoclave/Steam sterilizer
BELARUS	Newster Srl	Dry heat, shredder/grinder
BULGARIA	Newster Srl	Dry heat, shredder/grinder
CANADA	ARTECH Reduction Technologies Bioservices Group Inc. Bondtech Corporation Environmental Waste International Hydroclave Systems Corp. Sanitec Industries SANYO Scientific Stericycle, Inc.	Autoclave/steam sterilizer, shredder grinder Autoclave/steam sterilizer Autoclave/steam sterilizer Microwave, shredder/ grinder Autoclave/steam sterilizer Microwave, shredder/ grinder Autoclave/steam sterilizer Autoclave/steam sterilizer, microwave, shredder/ grinder (service provider)
CENTRAL AMERICA	Acmas Technocracy (Pvt) Ltd. Tuttnauer	Autoclave/steam sterilizer Autoclave/steam sterilizer
CHILE	Oppici S.A.	Autoclave/steam sterilizer
CHINA	Bondtech Corporation Hydroclave Systems Corp. Yamato Scientific Co., Ltd.	Autoclave/steam sterilizer Autoclave/steam sterilizer Autoclave/steam sterilizer
COLOMBIA	Bondtech Corporation	Autoclave/steam sterilizer
COSTA RICA	Bondtech Corporation	Autoclave/steam sterilizer
CROATIA	Newster Srl	Dry heat, shredder/grinder
CYPRUS	Ecodas	Autoclave/steam sterilizer, shredder/grinder
DENMARK	Ecodas	Autoclave/steam sterilizer, shredder/grinder
DOMINICAN REPUBLIC	Newster Srl Urbaser	Dry heat, shredder/grinder Autoclave/steam sterilizer (service provider)
EGYPT	Ecodas Hydroclave Systems Corp. Tuttnauer Company Ltd. Urbaser	Autoclave/steam sterilizer, shredder/grinder Autoclave/steam sterilizer Autoclave/steam sterilizer Autoclave/steam sterilizer (service provider)
EUROPE	Acmas Technocracy (Pvt) Ltd. Crusader Engineering	Autoclave/steam sterilizer Autoclave/steam sterilizer

EUROPE (continued)	Logmed Technologie GmbH WR2, Inc. WR2, Inc.	Autoclave/steam sterilizer, shredder/grinder Autoclave/steam sterilizer, shredder/grinder Other (alkaline hydrolysis)
FRANCE	Ecodas Ecosteryl AMB Steritech – ECPS SA Technologies Environnement et Médical (T.E.M.) Tuttnauer Company Ltd. Urbaser	Autoclave/steam sterilizer, shredder/grinder Microwave, shredder/grinder Autoclave/steam sterilizer Autoclave/steam sterilizer Autoclave/steam sterilizer Autoclave/steam sterilizer (service provider)
GERMANY	Erdwich Zerkleinerungssysteme GmbH GÖK Consulting AG Logmed Technologie GmbH Stericomat Systems GmbH WEBECO Hygiene in Medizin und Labor GmbH & Co. KG	Autoclave/steam sterilizer, shredder/grinder Autoclave/steam sterilizer, shredder/grinder Autoclave/steam sterilizer, shredder/grinder Autoclave/steam sterilizer, shredder/grinder Autoclave/steam sterilizer
GREECE	Hydroclave Systems Corp. Newster Srl Tuttnauer Company Ltd. Urbaser	Autoclave/steam sterilizer Dry heat, shredder/grinder Autoclave/steam sterilizer Autoclave/steam sterilizer (service provider)
GUAM	Bondtech Corporation	Autoclave/steam sterilizer
GUYANA	Ecodas	Autoclave/steam sterilizer, shredder/grinder
HONDURAS	Ecodas	Autoclave/steam sterilizer, shredder/grinder
HUNGARY	Ecodas	Autoclave/steam sterilizer, shredder/grinder
INDIA	Acmas Technocracy (Pvt) Ltd. Apothecaries Sundries Manufacturing Company Ashwani Diagnostic Equipments Manufacturing Co. (Ademco) Bensons Surgico Bioasset Technologies Pvt. Ltd. Cecon Pollutech Systems Limited Fairdeal Traders Global Corporation Haat Incinerators Pvt Ltd	Autoclave/steam sterilizer Autoclave/steam sterilizer Autoclave/steam sterilizer Autoclave/steam sterilizer Autoclave/steam sterilizer Autoclave/steam sterilizer Autoclave/steam sterilizer Autoclave/steam sterilizer, shredder/grinder

INDIA (continued)	HMG India	Autoclave/steam sterilizer
	Hydroclave Systems Corp.	Autoclave/steam sterilizer
	Indian Instruments Manufacturing Company	Autoclave/steam sterilizer
	Indian Scientific Instruments Company	Autoclave/steam sterilizer
	Jain Hydraulics Pvt. Ltd.	Autoclave/steam sterilizer, shredder/grinder
	Life Steriware	Autoclave/steam sterilizer
	Machinfabrik	Autoclave/steam sterilizer
	Naugra Export	Autoclave/steam sterilizer
	Neelam Industries	Autoclave/steam sterilizer
	O.P. & Brothers Scientific Works	Autoclave/steam sterilizer
	Pulse Medika	Microwave
	Rajas Enterprises	Autoclave/steam sterilizer
	Reliance Instruments Corporation	Autoclave/steam sterilizer
	Science Enterprises / SCIENTECH	Autoclave/steam sterilizer
Shambhavi Impex	Autoclave/steam sterilizer	
Shiv Dial Sud & Sons	Autoclave/steam sterilizer	
Swingstar	Autoclave/steam sterilizer	
Toshibha (India)	Autoclave/steam sterilizer	
Vaiktron	Autoclave/steam sterilizer	
INDONESIA	PT Grand Kartech	Autoclave/steam sterilizer
IRAN	Hydroclave Systems Corp. Iran Zeb Zaeem	Autoclave/steam sterilizer Autoclave/steam sterilizer
ITALY	Newster Srl	Dry heat, shredder/grinder
JAPAN	Ecodas	Autoclave/steam sterilizer, shredder/grinder
	Sanitec Industries	Microwave, shredder/grinder
	SANYO Scientific Yamato Scientific Co., Ltd.	Autoclave/steam sterilizer Autoclave/steam sterilizer
KAZAKHSTAN	Newster Srl	Dry heat, shredder/grinder
KUWAIT	Ecolotec	Autoclave/steam sterilizer, shredder/grinder
LATIN AMERICA	Urbaser	Autoclave/steam sterilizer (service provider)
LEBANON	Ecodas	Autoclave/steam sterilizer, shredder/grinder
	Hydroclave Systems Corp.	Autoclave/steam sterilizer
LUXEMBOURG	STERIFANT Vertriebs GmbH	Autoclave/steam sterilizer, microwave, shredder/grinder
MEXICO	Bondtech Corporation	Autoclave/steam sterilizer
	Coflex	Autoclave/steam sterilizer
	Ecodas	Autoclave/steam sterilizer, shredder/grinder

MEXICO (continued)	Hydroclave Systems Corp. Medam B.A. Srl	Autoclave/steam sterilizer Dry heat, shredder/ grinder
	Stericomat Systems GmbH	Autoclave/steam sterilizer, shredder/grinder
	Stericycle, Inc.	Autoclave/steam sterilizer, Dry heat, shredder/ grinder (service provider)
	Tuttnauer Company Ltd. Urbaser	Autoclave/steam sterilizer Autoclave/steam sterilizer (service provider)
MIDDLE EAST	Acmas Technocracy (Pvt) Ltd. Ecosteryl AMB	Autoclave/steam sterilizer Microwave, shredder/ grinder
	WR2, Inc.	Autoclave/steam sterilizer, shredder/grinder
	WR2, Inc. Tuttnauer Company Ltd.	Other (alkaline hydrolysis) Autoclave/steam sterilizer
MOROCCO	Ecodas	Autoclave/steam sterilizer, shredder/grinder
	Tuttnauer Company Ltd.	Autoclave/steam sterilizer
	Urbaser	Autoclave/steam sterilizer (service provider)
NETHERLANDS	Tuttnauer Company Ltd.	Autoclave/steam sterilizer
NEW CALEDONIA	Ecodas	Autoclave/steam sterilizer, shredder/grinder
NEW ZEALAND	Crusader Engineering	Autoclave/steam sterilizer
	Steriliser Services Ltd.	Autoclave/steam sterilizer
	Sterilisers New Zealand Ltd.	Autoclave/steam sterilizer
PHILIPPINES	Bondtech Corporation	Autoclave/steam sterilizer
	Chevalier Enviro Services Incorporated (CESI)	Autoclave/steam sterilizer (service provider)
	Cleanway Technology Corporation	Autoclave/steam sterilizer (service provider)
	Hydroclave Systems Corp.	Autoclave/steam sterilizer
	PAE Environmental, Inc.	Autoclave/steam sterilizer (service provider)
	Pollution Abatement Systems Specialists, Inc.	Autoclave/steam sterilizer, shredder/grinder (service provider)
	SafeWaste Inc.	Autoclave/steam sterilizer (service provider)
	Sanitec Industries Thermal Equipment Corporation	Microwave, shredder/grinder Autoclave/steam sterilizer, shredder/grinder
POLAND	Ecodas	Autoclave/steam sterilizer, shredder/grinder
	Maschinenvertrieb fur Umwelttechnik GmbH	Autoclave/steam sterilizer, shredder/grinder

PORTUGAL	Newster Srl Stericomat Systems GmbH	Dry heat, shredder/grinder Autoclave/steam sterilizer, shredder/grinder
	Tuttnauer Company Ltd. Urbaser	Autoclave/steam sterilizer Autoclave/steam sterilizer (service provider)
PUERTO RICO	Bondtech Corporation Stericycle, Inc.	Autoclave/steam sterilizer Autoclave/steam sterilizer, macrowave, shredder/ grinder (service provider)
	Tuttnauer Company Ltd. Urbaser	Autoclave/steam sterilizer Autoclave/steam sterilizer (service provider)
QATAR	Bondtech Corporation	Autoclave/steam sterilizer
REUNION ISLAND	Ecodas	Autoclave/steam sterilizer, shredder/grinder
RUSSIA	Ecodas	Autoclave/steam sterilizer, shredder/grinder
	Newster Srl Stericomat Systems GmbH	Dry heat, shredder/grinder Autoclave/steam sterilizer, shredder/grinder
	Tuttnauer Company Ltd.	Autoclave/steam sterilizer
SAINT LUCIA	Ecodas	Autoclave/steam sterilizer, shredder/grinder
SAUDI ARABIA	Sanitec Industries Saudi Gulf Environmental Protection Company (SEPCO Environment)	Microwave, shredder/grinder Microwave, shredder/grinder
SLOVENIA	Maschinenvertrieb fur Umwelttechnik GmbH	Autoclave/steam sterilizer, shredder/grinder
SOUTH AFRICA	Bondtech Corporation Compass Waste Services	Autoclave/steam sterilizer Autoclave/steam sterilizers, shredder/grinder (service provider)
	Logmed Technologie GmbH	Autoclave/steam sterilizer, shredder/grinder
SOUTH EAST ASIA	Crusader Engineering	Autoclave/steam sterilizer
	Tuttnauer Company Ltd.	Autoclave/steam sterilizer
SOUTH KOREA	Bondtech Corporation	Autoclave/steam sterilizer
	Sanitec Industries	Microwave, shredder/grinder
SPAIN	ARTECH Reduction Technologies	Autoclave/steam sterilizer, shredder/grinder
	Ecodas	Autoclave/steam sterilizer, shredder/grinder
	Industrial Olmar, S.A. Matachana Group	Autoclave/steam sterilizer Autoclave/steam sterilizer

SPAIN	Tuttnauer Company Ltd. Urbaser	Autoclave/steam sterilizer Autoclave/steam sterilizer (service provider)
TAIWAN	Evermed Tech Co., Ltd. REXMED Industries Co., Ltd. Yamato Scientific Co., Ltd.	Autoclave/steam sterilizer Autoclave/steam sterilizer Autoclave/steam sterilizer
TUNISIA	Ecodas Newster Srl	Autoclave/steam sterilizer, shredder/grinder Dry heat, shredder/grinder
TURKEY	Metan Medikal Teknik Thermal Equipment Corporation	Autoclave/steam sterilizer Autoclave/steam sterilizer, shredder/grinder
UK	ARTECH Reduction Technologies Astell Scientific Ltd. Balcan Engineering Ltd. WR2, Inc. WR2, Inc. Bondtech Corporation Ecodas Hydroclave Systems Corp. Sanitec Industries Tuttnauer Company Ltd. Urbaser	Autoclave/steam sterilizer, shredder/grinder Autoclave/steam sterilizer Other (needle remover) Autoclave/steam sterilizer, shredder/grinder Other (alkaline hydrolysis) Autoclave/steam sterilizer Autoclave/steam sterilizer, shredder/grinder Autoclave/steam sterilizer Microwave, shredder/grinder Autoclave/steam sterilizer Autoclave/steam sterilizer (service provider)
URUGUAY	Aborgama Ducelit S.A Bondtech Corporation	Autoclave/steam sterilizer (service provider) Autoclave/steam sterilizer
USA	Advanced Precision Fabricators, Inc. Aegis Bio-Systems Anchor Autoclave Systems Biomedical Disposal, Inc. BioMedical Technology Solutions, Inc. Bioservices Group Inc. Bondtech Corporation Crawford Diversified Services Crystal Cache Ecolotec Environmental Tectonics Corporation EnviroPack Development Corporation George K. Moss Co., Inc. Hydroclave Systems Corp. KC MediWaste Komar Industries	Autoclave/steam sterilizer (service provider) Autoclave/steam sterilizer, shredder/grinder Autoclave/steam sterilizer Other (needle remover) Dry heat Autoclave/steam sterilizer Autoclave/steam sterilizer Autoclave/steam sterilizer Autoclave/steam sterilizer Autoclave/steam sterilizer, shredder/grinder Autoclave/steam sterilizer Other (needle remover) Autoclave/steam sterilizer, shredder/grinder Autoclave/steam sterilizer Dry heat, shredder/grinder Autoclave/steam sterilizer,

Liberty Welding & Iron Works Company	shredder/grinder
Mark-Costello Company	Autoclave/steam sterilizer
Market Forge Industries, Inc.	Autoclave/steam sterilizer
McGill AirPressure LLC	Autoclave/steam sterilizer
Medical Innovations, Inc.	Other (syringe melter)
Melco Steel, Inc.	Autoclave/steam sterilizer
Oppici S.A.	Autoclave/steam sterilizer
Red Bag Solutions	Autoclave/steam sterilizer, shredder/grinder
San-I-Pak, Inc.	Autoclave/steam sterilizer
Sanitec Industries	Microwave, shredder/grinder
SANYO Scientific	Autoclave/steam sterilizer
Stericycle, Inc.	Autoclave/steam sterilizer, Dry heat, shredder/grinder (service provider)
Tempico, Inc.	Autoclave/steam sterilizer, shredder/grinder
Thermal Equipment Corporation	Autoclave/steam sterilizer, shredder/grinder
Tuttbauer Company Ltd.	Autoclave/steam sterilizer
Wisconsin Aluminum Foundry Co.	Autoclave/steam sterilizer
WR2, Inc.	Autoclave/steam sterilizer, shredder/grinder
WR2, Inc.	Other (alkaline hydrolysis)
WSF Industries, Inc.	Autoclave/steam sterilizer
Yamato Scientific Co., Ltd.	Autoclave/steam sterilizer

VENEZUELA	Tuttbauer Company Ltd.	Autoclave/steam sterilizer
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VIETNAM	Viettronics Dong Da JSC	Autoclave/steam sterilizer
	Urbaser	Autoclave/steam sterilizer (service provider)

Index Of Technologies By Technology Type

AUTOCLAVE/STEAM STERILIZER

<i>Company</i>	<i>Country/Region</i>
Acmas Technocracy (Pvt) Ltd.	Africa, Central America, Europe, India, Middle East USA
Anchor Autoclave Systems	India
Apothecaries Sundries Manufacturing Company	India
Ashwani Diagnostic Equipments Manufacturing Co. (Ademco)	UK
Astell Scientific Ltd.	India
Bensons Surgico	India
Bioasset Technologies Pvt. Ltd.	Canada, USA
Bioservices Group Inc.	Argentina, Brazil, Canada, China, Colombia, Costa Rica Guam, Mexico, Philippines, Puerto Rico, Qatar, South Africa, South Korea, UK, Uruguay, USA
Bondtech Corporation	India
Cecon Pollutech Systems Limited	Austria
CERTOCLAV Sterilizer GmbH	Mexico
Coflex	USA
Crawford Diversified Services	Australasia, Europe, New Zealand, South East Asia
Crusader Engineering	USA
Crystal Cache	USA
Environmental Tectonics Corporation	Taiwan
Evermed Tech Co., Ltd.	India
Fairdeal Traders	India
Global Corporation	India
HMG India	Argentina, Canada, China, Egypt, Greece, India, Iran, Lebanon, Mexico, Philippines, UK, USA
Hydroclave Systems Corp.	India
Indian Instruments Manufacturing Company	India
Indian Scientific Instruments Company	Spain
Industrial Olmar, S.A.	Iran
Iran Zeb Zaeem	USA
Liberty Welding & Iron Works Company	India
Life Steriware	India
Machinfabrik	USA
Mark-Costello Company	USA
Market Forge Industries, Inc.	USA
Matachana Group	Spain

AUTOCLAVE/STEAM STERILIZER (continued)

<i>Company</i>	<i>Country/Region</i>
McGill AirPressure LLC	USA
Melco Steel, Inc.	USA
Metan Medikal Teknik	Turkey
Naugra Export	India
Neelam Industries India	India
O.P. & Brothers Scientific Works	India
Oppici S.A.	Chile, USA
PT Grand Kartech	Indonesia
Rajas Enterprises	India
Reliance Instruments Corporation	India
REXMED Industries Co., Ltd.	Taiwan
San-I-Pak, Inc.	USA
SANYO Scientific	Canada, Japan, USA
Science Enterprises / SCIENTECH	India
Shambhavi Impex	India
Shiv Dial Sud & Sons	India
Silon Ambiental	Brazil
Steriliser Services Ltd.	New Zealand
Sterilisers New Zealand Ltd.	New Zealand
Steritech - ECPS SA	France
Sterlix Ambiental	Brazil
Swingstar	India
Technologies Environnement et Médical (T.E.M.)	France
Toshibha (India)	India
Tuttnauer Company Ltd.	Dominican Republic, Egypt, France, Greece, Mexico, Morocco, Netherlands, Portugal, Puerto Rico, Russia, Spain, UK, USA, Venezuela
Vaiktron	India
Vietronics Dong Da JSC	Vietnam
WEBECO Hygiene in Medizin und Labor GmbH & Co. KG	Germany
Wisconsin Aluminum Foundry Co.	USA
WSF Industries, Inc.	USA
Yamato Scientific Co., Ltd.	China, Japan, Taiwan, USA

AUTOCLAVE/STEAM STERILIZER (SERVICE PROVIDER)

<i>Company</i>	<i>Country/Region</i>
Aborgama Ducelit S.A	Uruguay
Advanced Precision Fabricators, Inc.	USA
Chevalier Enviro Services Incorporated (CESI)	Philippines
Cleanway Technology Corporation	Philippines
PAE Environmental, Inc.	Philippines
SafeWaste Inc.	Philippines
Stericycle, Inc.	Canada, Mexico, Puerto Rico, USA

AUTOCLAVE/STEAM STERILIZER, SHREDDER/GRINDER

<i>Company</i>	<i>Country/Region</i>
Aegis Bio-Systems	USA
ARTECH Reduction Technologies	Canada
<i>Company</i>	<i>Country/Region</i>
Ecodas	Algeria, Argentina, Brazil, Cyprus, Denmark, Egypt, France, Guyana, Honduras, Hungary, Japan, Lebanon, Mexico, Morocco, New Caledonia, Poland, Reunion Island, Russia, Saint Lucia, Spain, Tunisia, UK
Ecolotec	Kuwait, USA
Erdwich Zerkleinerungssysteme GmbH	Germany
George K. Moss Co., Inc.	USA
GÖK Consulting AG	Germany
Haat Incinerators Pvt Ltd	India
Jain Hydraulics Pvt. Ltd.	India
Komar Industries	USA
Logmed Technologie GmbH	Europe, Germany, South Africa
Maschinenvertrieb für Umwelttechnik GmbH	Poland, Slovenia
Red Bag Solutions	USA
Stericomat Systems GmbH	Germany, Mexico, Poland, Russia
Tempico, Inc.	USA
Thermal Equipment Corporation	Philippines, Turkey, USA
WR2, Inc.	Africa, Europe, Middle East, UK, USA

AUTOCLAVE/STEAM STERILIZER, SHREDDER/GRINDER (SERVICE PROVIDER)

<i>Company</i>	<i>Country/Region</i>
AWS Clinical Waste	Australia
MWTS Ambiental	Brazil
Pollution Abatement Systems Specialists, Inc.	Philippines
Compass Waste Services	South Africa

COMBINED AUTOCLAVE AND MICROWAVE

<i>Company</i>	<i>Country/Region</i>
CMB Maschinenbau und Handels GmbH	Austria
STERIFANT Vertriebs GmbH	Luxembourg

DRY HEAT

Company
BioMedical Technology Solutions, Inc.

Country/Region
USA

DRY HEAT, SHREDDER/GRINDER

Company
KC Mediwaste
Newster Srl

Country/Region
USA
Belarus, Bulgaria, Croatia,
Dominican Republic, Greece,
Kazakhstan, Poland, Russia,
Tunisia
Canada, Mexico, Puerto Rico,
USA

Stericycle, Inc

DRY HEAT (SERVICE PROVIDER)

Company
CAVO

Country/Region
Brazil

MICROWAVE

Company
Meteka GmbH
Pulse Medika

Country/Region
Austria
India

MICROWAVE, SHREDDER/GRINDER

Company
Ecosteryl AMB

Environmental Waste International
Medam B.A. Srl
Sanitec Industries

Saudi Gulf Environmental Protection Company
(SEPCO Environment)

Country/Region
Africa, Asia, Belgium,
France, Middle East
Canada
Argentina, Mexico
Brazil, Canada, Japan,
Philippines, Saudi Arabia,
South Korea, UK, USA
Saudi Arabia

OTHERS

<i>Company</i>	<i>Country/Region</i>
ALKALINE HYDROLYSIS WR2, Inc.	Africa, Europe, Middle East, UK, USA
NEEDLE REMOVER Balcan Engineering Ltd., Biomedical Disposal, Inc. EnviroPack Development Corporation	UK USA USA
SYRINGE MELTER Medical Innovations, Inc.	USA