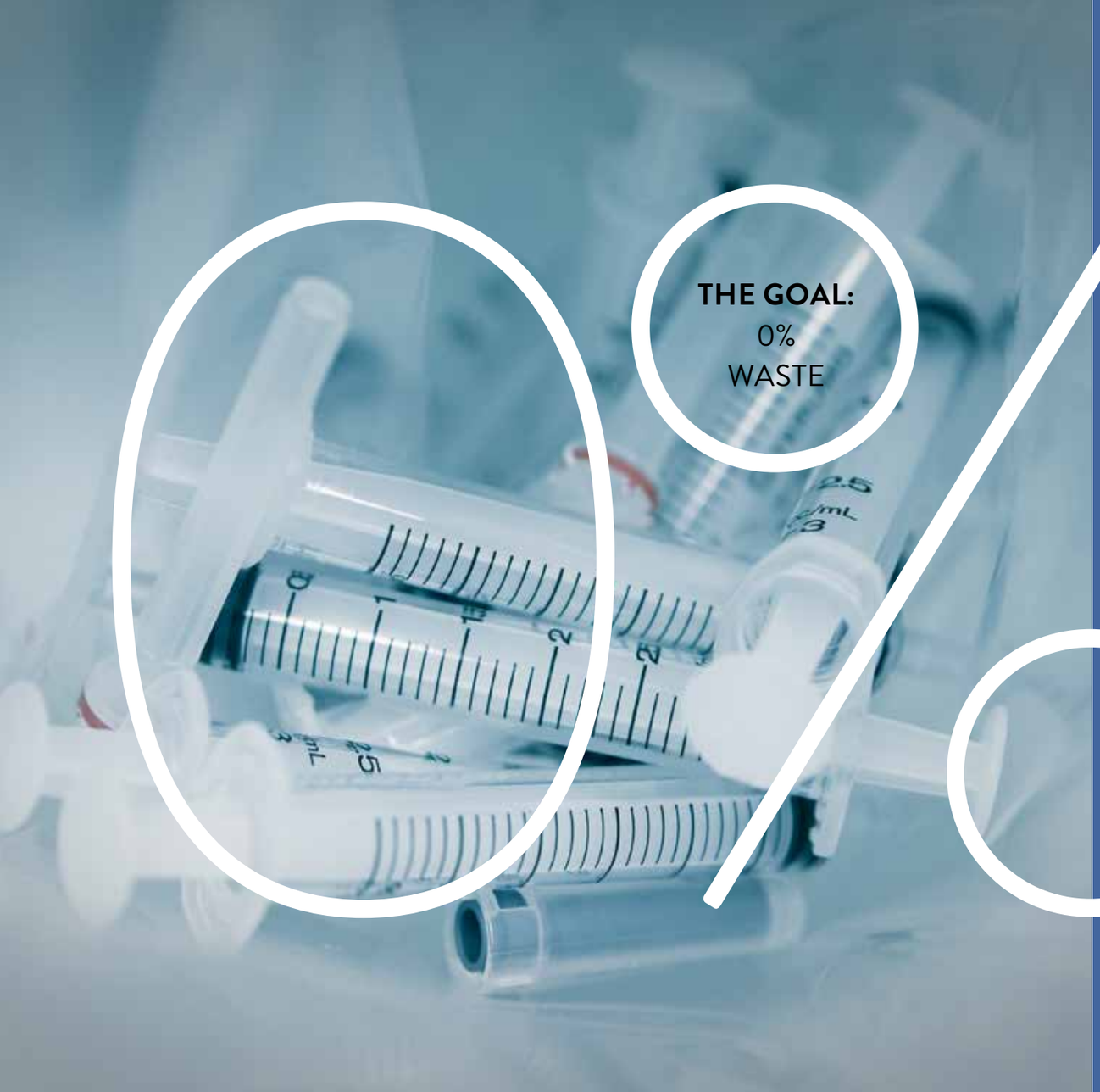
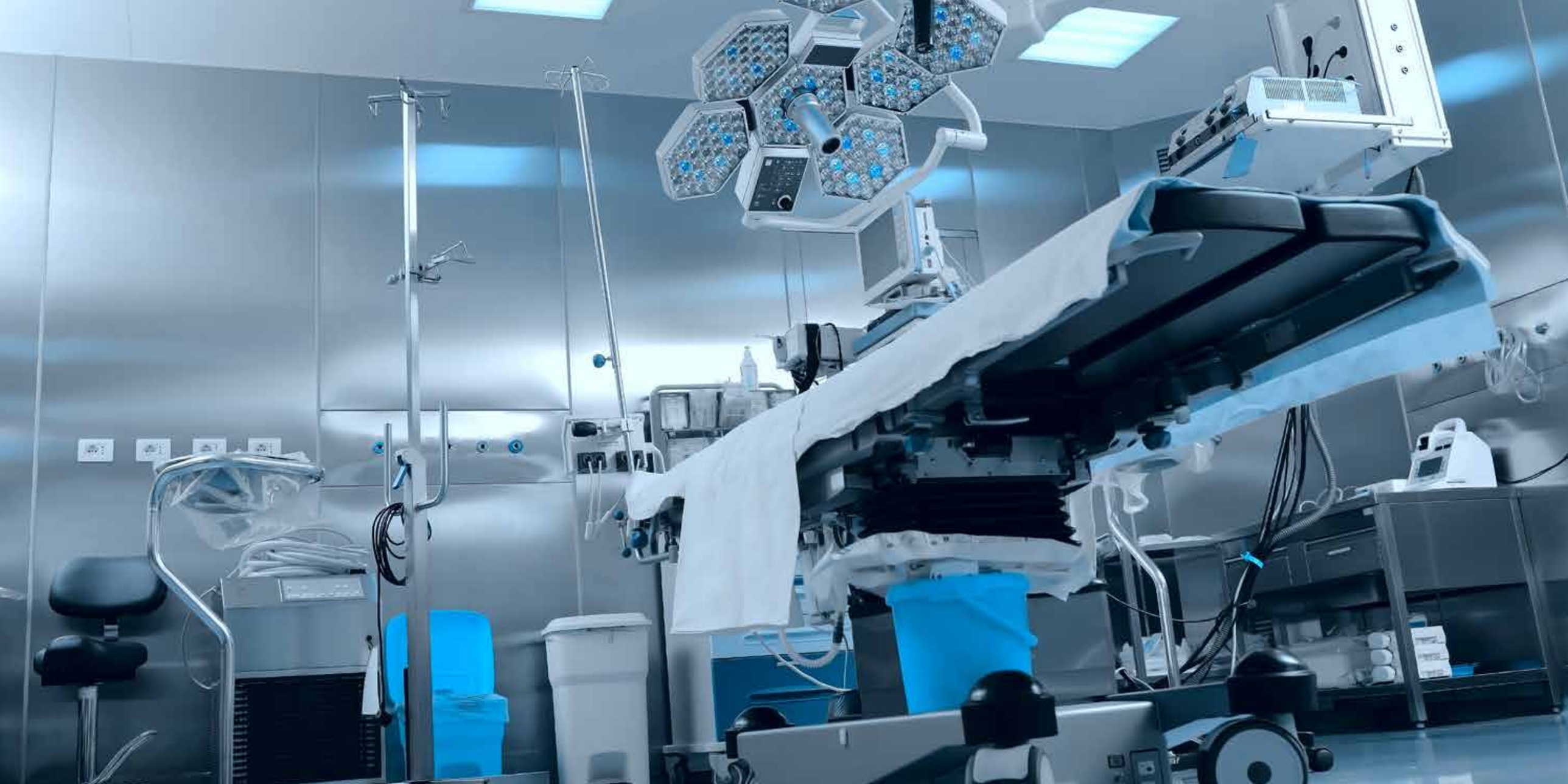

OMPECO



CONVERTER® H

TREATING WASTE DIRECTLY ON SITE

CERTIFICATIONS
ISO 9001 NATO AH649
RINA
M.O.G.C. 231
APHIS
APHA



APPLICATIONS

_LABS
_HOSPITALS
_CLINICS
_TREATMENT CENTERS
_CLINICAL WASTE MANAGEMENT

THE IDEA

Transform unsorted waste in to a sterile dry, stable, homogeneous product.

WASTE
CHARACTERISTICS

INFECTED WASTE 100 kg/m³

MUNICIPAL WASTE 300 kg/m³

ORGANIC WASTE 500 kg/m³

DENSITY

100 kg/m³ — 500 kg/m³

INFECTED WASTE humidity

MUNICIPAL WASTE humidity

ORGANIC WASTE humidity

HUMIDITY

20% — 70%

HOW IT WORKS
WORKING PRINCIPLES

+ **SAFETY**
Flame free!

+ **SAFETY**
The system does not work under pressure!

1.

WARM-UP
FRICTION

2.

EVAPORATION
BOILING

3.

HEATING
HIGH TEMPERATURE MOIST HEAT

THE PROCESS

SEVEN STEPS 30 MINUTES ONLY

Converter® equipment is authorized to treat waste through physical sterilization, modification, reduction of volume, dehydration and reduction of weight.

1.

WASTE LOADING

The waste is loaded inside the chamber by hand in plastic bags and the lid is closed.

2.

100°C

CRUSHING

The rotor starts and accelerates gradually, as the material is finely ground and the temperature rises quickly to about 100 °C.

3.

100°C

EVAPORATION

The heat generated by friction in the material causes the evaporation of the waste moisture and the temperature remains constant at around 100°C.

4.

151°C

SUPERHEATING

Once all the moisture has been eliminated, the frictional heat causes the temperature of the material to increase to 151°C.

5.

STERILIZATION

The temperature of the material is held constant at 151°C for 3 minutes, under moist heat conditions through controlled water dosage.

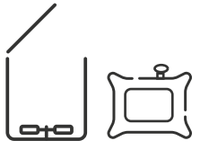
6.

100>60°C

COOLING DOWN

The waste is sprinkled with water in order to lower the temperature of the material to about 100°C. A vacuum pump then lowers the temperature further down to 60°C adiabatically.

7.



UNLOADING IN VACUUM BAG

The treated material is unloaded by centrifugal force through the opening of a servo-operated valve positioned at the bottom of the treatment chamber.

THE RESULT
LIGHT AND DRY

WASTE BIN IS AN IDEAL BACTERIAL CULTURE
Microorganism proliferation and spreading is the most common problem connected to the waste management because it directly affects the human health.

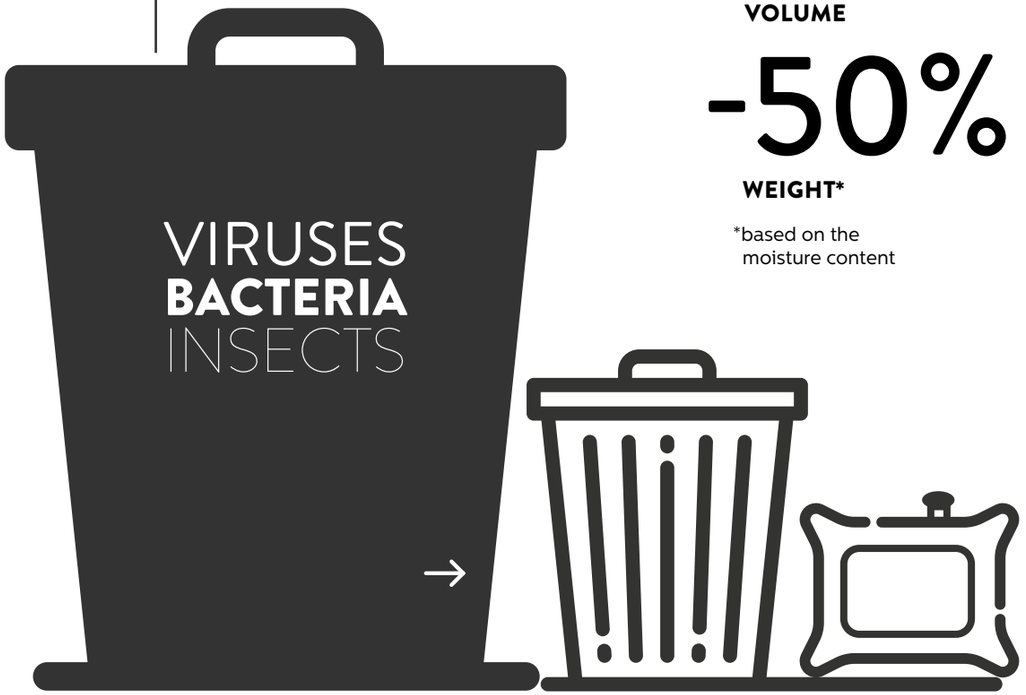
1 bacteria today → $5x10^{86}$ in 4 days

At the end of the treatment with the Converter® H series the final product is a completely unrecognizable, odorless and sterile flock or “fluff”.

The weight is reduced by 50%, and the volume by 80%. if vacuum packed the volume is reduced further and the brickets can be stored for long periods, with no odour, dust or need to refrigerate.

WASTE MATERIAL

includes several hazardous substances which can be eliminated only through thermal processes.



-80%
VOLUME

-50%
WEIGHT*

*based on the moisture content

UNRECOGNIZABLE
ODORLESS AND STERILIZED

90 DAYS

The waste can be kept without emitting odors for up to 90 days.

↓

FLUFF

↓

RDF

3.5 ÷ 4.5 MWh/t*

* nominal value

AUTOMATIC VACUUM

↓ **NO ODORS**

↓ **NO WASTE MANAGEMENT**

↓ **NO WASTE STORAGE**
EASY STORAGE
LESS SPACE REQUIRED

↓ **NO REFRIGERATIONS**

CONVERTER®
H5000

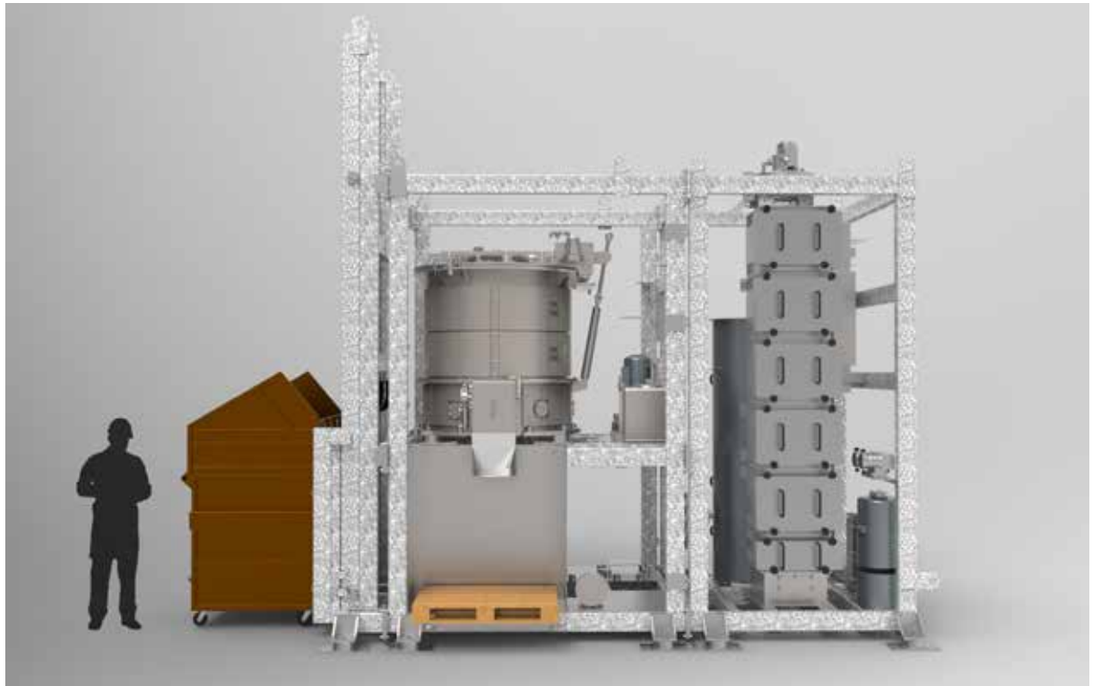
↓

TECHNICAL DETAILS

5000 liters waste
hospital waste → 500 to 600 kg/h

Specification	
treatment chamber volume [lt]	5000
machine dry weight [kg]	16000
machine footprint [mm - h]	8000x2500-6500
electric cabinet weight [kg]	1200
electric cabinet footprint [mm	1600x800x2100
total installed power [kw]	520
nominal motor power [kw]	500
nominal current [a]	600
peak current [a]	750
electrical consumption [kw/kg]	0,4 - 0,6

CONVERTER®
H2000



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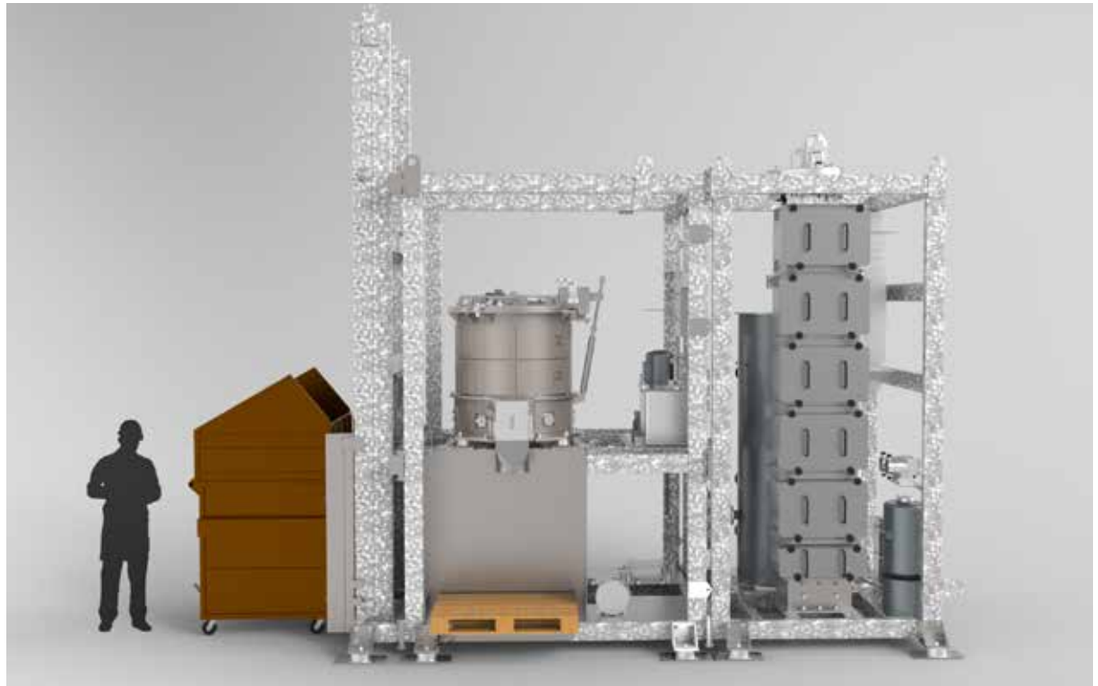
TECHNICAL DETAILS

2000 liters waste
hospital waste → 250 to 350 kg/h

Specification	
treatment chamber volume [lt]	2000
machine dry weight [kg]	14000
machine footprint [mm - h]	6700x2500-6500
electric cabinet weight [kg]	1000
electric cabinet footprint [mm]	1600x800x2100
total installed power [kw]	360
nominal motor power [kw]	350
nominal current [a]	400
peak current [a]	480
electrical consumption [kw/kg]	0,4 - 0,6

CONVERTER®
H1000



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TECHNICAL DETAILS

1000 liters waste
hospital waste → 150 to 200 kg/h

Specification	
treatment chamber volume [lt]	1000
machine dry weight [kg]	12000
machine footprint [mm - h]	6700x2500-5900
electric cabinet weight [kg]	800
electric cabinet footprint [mm]	1600x800x2100
total installed power [kw]	260
nominal motor power [kw]	250
nominal current [a]	300
peak current [a]	360
electrical consumption [kw/kg]	0,4 - 0,6

CONVERTER®
H400

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TECHNICAL DETAILS

400 liters waste
hospital waste → 60 to 80 kg/h

Specification	
treatment chamber volume [lt]	400
machine dry weight [kg]	2200
machine footprint [mm - h]	2300x1500-1800
electric cabinet weight [kg]	450
electric cabinet footprint [mm]	1000x660x2000
total installed power [kw]	100
nominal motor power [kw]	85
nominal current [a]	120
peack current [a]	150
electrical consumption [kw/kg]	0,4 - 0,6

CONVERTER®
H200

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TECHNICAL DETAILS

200 liters waste
hospital waste → 30 to 40 kg/h

Specification	
treatment chamber volume [lt]	200
machine dry weight [kg]	1500
machine footprint [mm - h]	1950x1200-1400
electric cabinet weight [kg]	450
electric cabinet footprint [mm]	1000x660x2000
total installed power [kw]	65
nominal motor power [kw]	60
nominal current [a]	95
peack current [a]	120
electrical consumption [kw/kg]	0,4 - 0,6

CONVERTER®
H100

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TECHNICAL DETAILS

100 liters waste
hospital waste → 15 to 20 kg/h

Specification	
treatment chamber volume [lt]	100
machine dry weight [kg]	1100
machine footprint [mm - h]	1500x1100-1400
electric cabinet weight [kg]	450
electric cabinet footprint [mm]	1000x660x2000
total installed power [kw]	55
nominal motor power [kw]	50
nominal current [a]	70
peack current [a]	80
electrical consumption [kw/kg]	0,4 - 0,6

CONVERTER®
H50_H25

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TECHNICAL DETAILS

H50	
Specification	
treatment chamber volume [lt]	50
machine dry weight [Kg]	250
machine footprint [mm]	700x700x1100
total installed power [Kw]	10
waste [Kg/h]	8-12

H25	
Specification	
treatment chamber volume [lt]	25
machine dry weight [Kg]	110
machine footprint [mm]	700x600x900
total installed power [KW]	2,8
waste [Kg/h]	4-6


C4
Medical care

NO POLLUTANT EMISSIONS
Liquids present in the waste are separated and condensed

SAFE STOCK
No dust
No odor
No fermentation

NO WASTE SEGREGATION
Time saving

NO WATER CONSUMPTION
Can be reduced down to zero

EASY TO USE
No special license is needed to operate

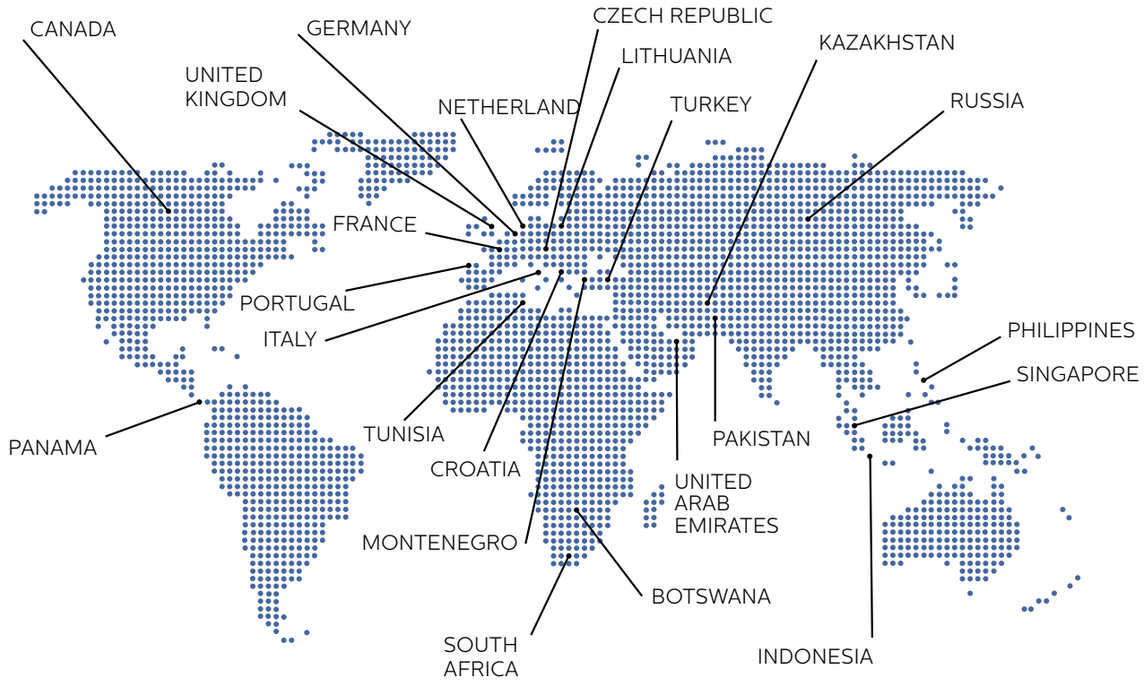
LOW ENERGY CONSUMPTION

ECOFRIENDLY SUSTAINABLE ECONOMIC

CONVERTER® IN THE WORLD

25 COUNTRIES

- Our brokers are present worldwide;
- Several local distributors operate exclusively in their territories;
- Among our clients there are the 5 most important NATO Navies and manufactures of large luxury Yachts.



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