



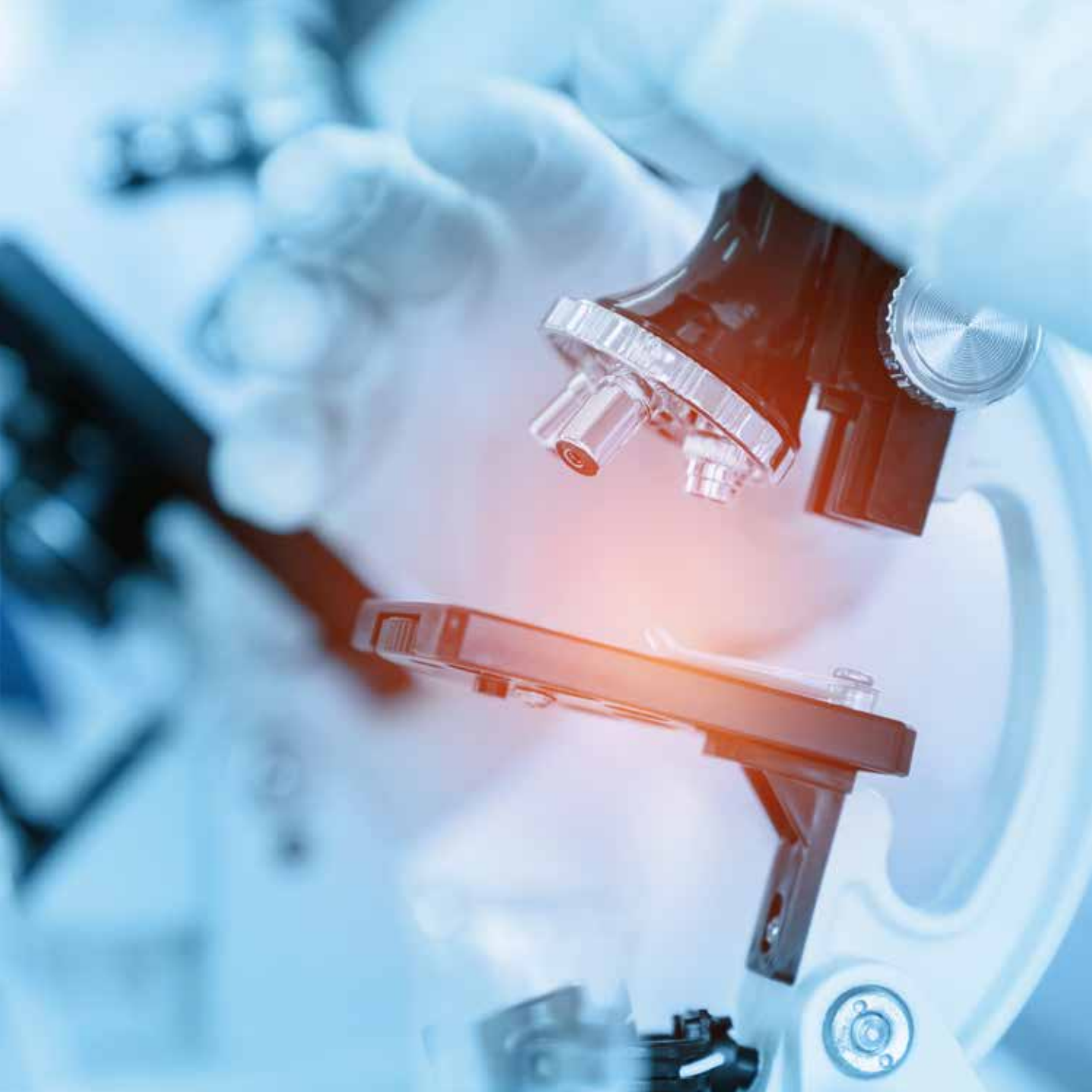
THE GOAL:
0%
WASTE

CONVERTER® H

TREATING WASTE
DIRECTLY
ON SITE

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





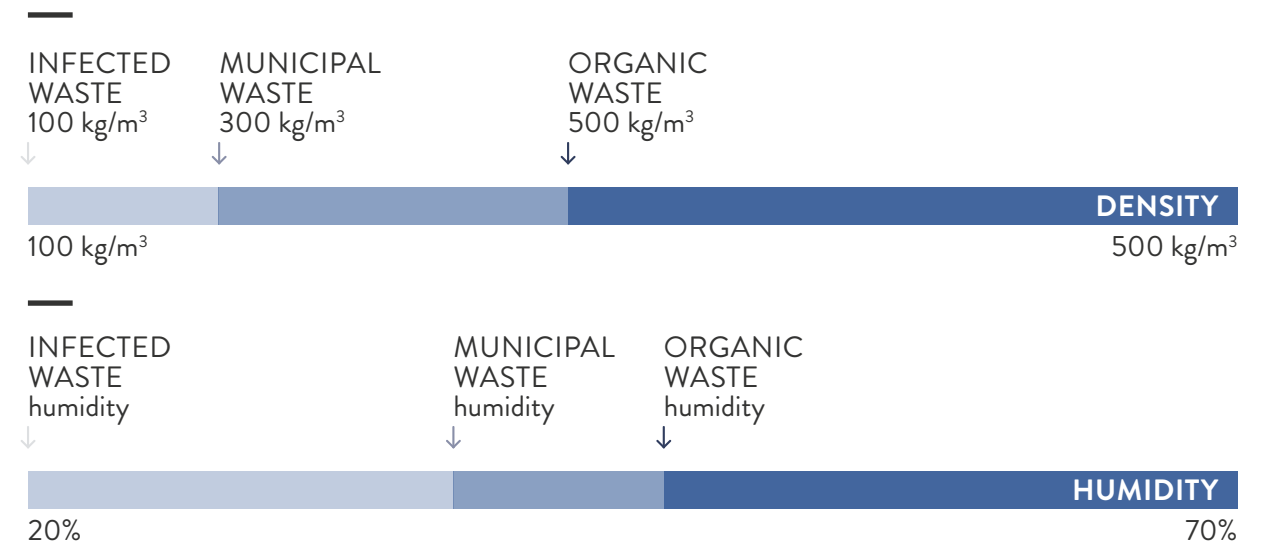
APPLICATIONS

_LABS
_HOSPITALS
_CLINICS
_TREATMENT CENTERS
_CLINICAL WASTE MANAGEMENT



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

WASTE CHARACTERISTICS



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.



WASTE LOADING

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



100°C



CRUSHING

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



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.



151°C



SUPERHEATING

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



STERILIZATION

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

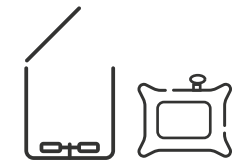


100>60°C



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.



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 → 5×10^{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 bricks 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

↓



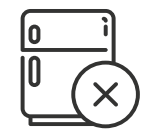
NO WASTE
MANAGEMENT

↓



NO WASTE STORAGE
EASY STORAGE
LESS SPACE REQUIRED

↓



NO
REFRIGERATIONS





**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