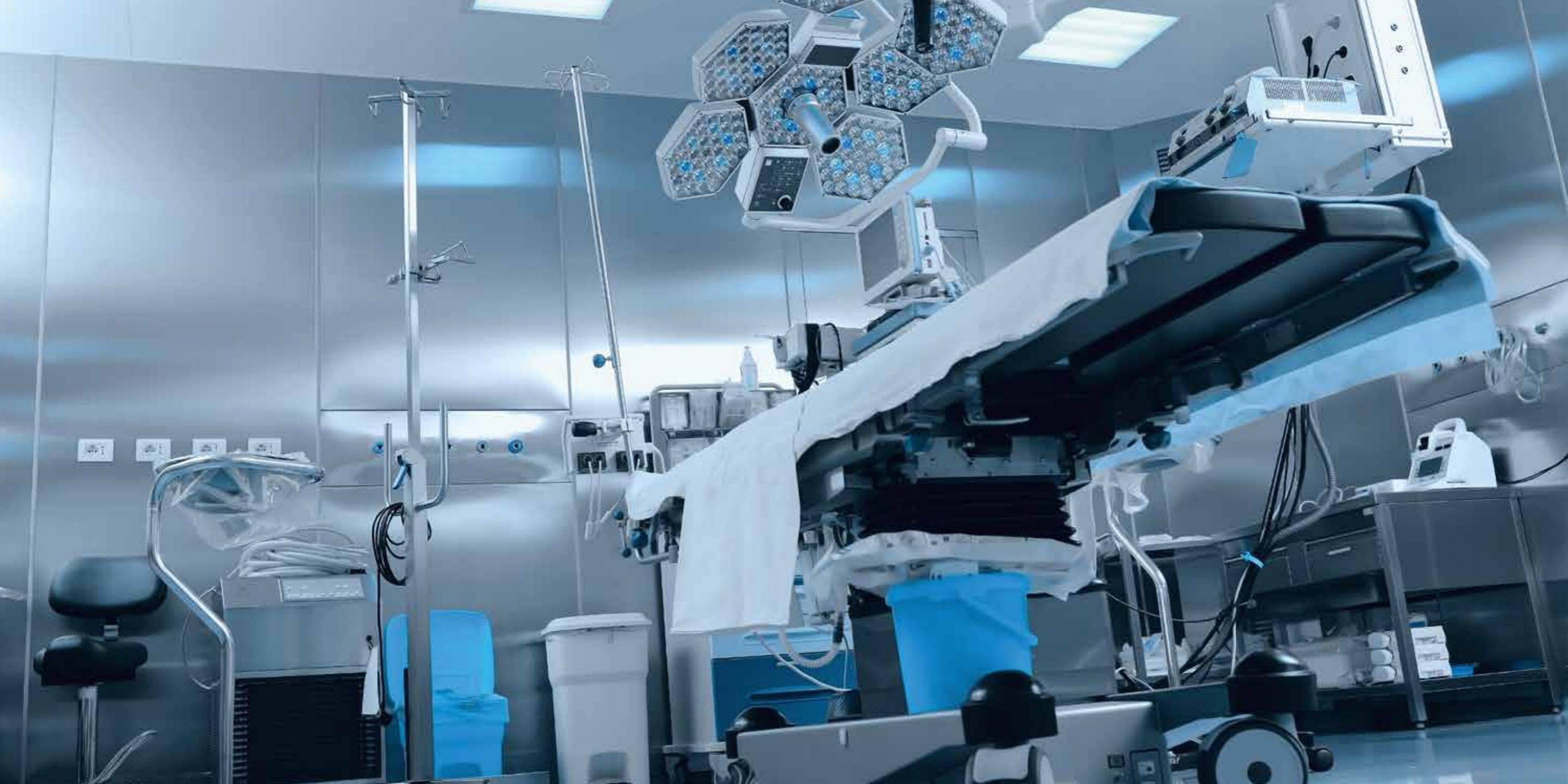


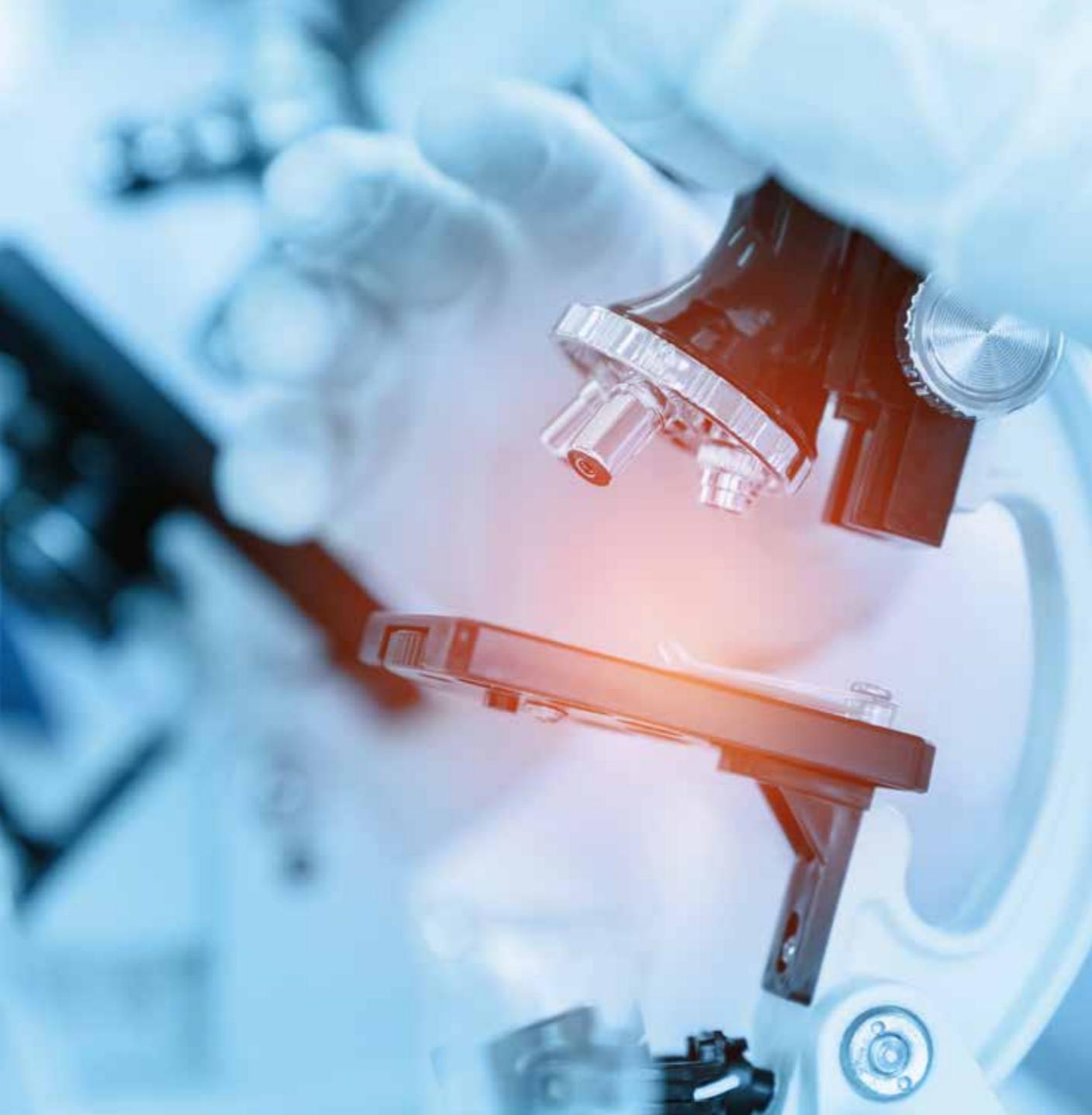
THE GOAL:
0%
WASTE

CONVERTER® H

TREATING WASTE DIRECTLY ON SITE

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





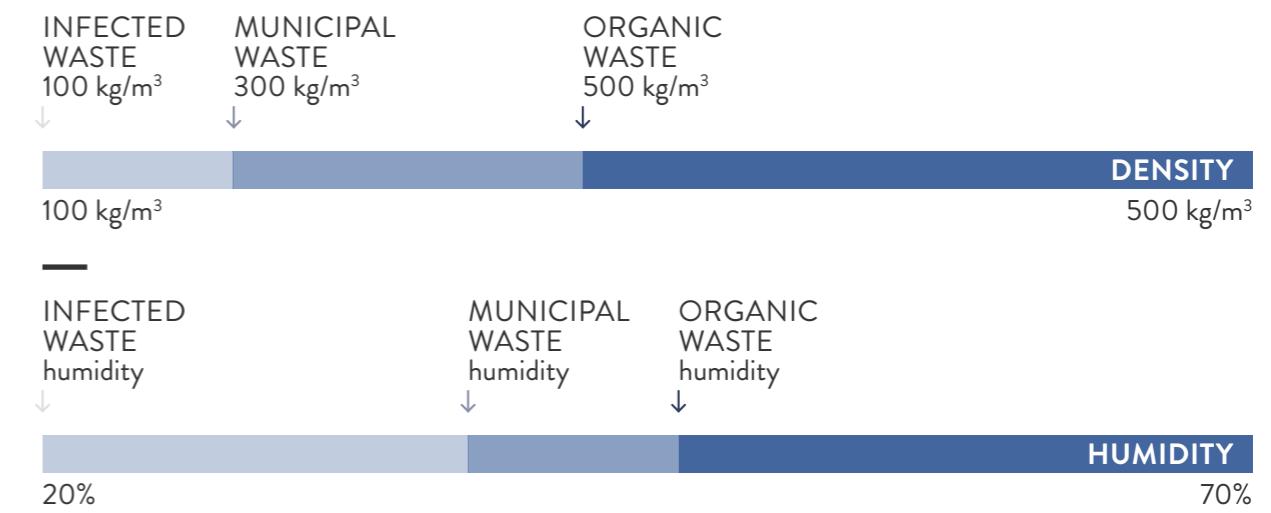
APPLICATIONS

- _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



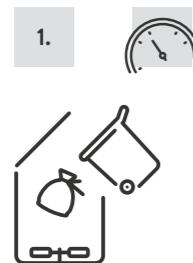
3.

HEATING HIGH TEMPERATURE MOIST HEAT



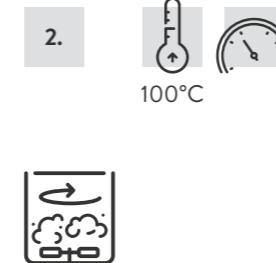
THE PROCESS

SEVEN STEPS 30 MINUTES ONLY



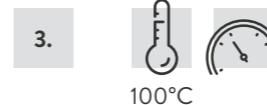
WASTE LOADING

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



CRUSHING

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



SUPERHEATING

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



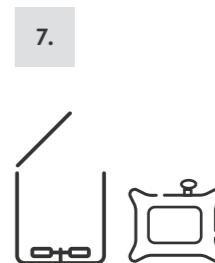
STERILIZATION

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



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 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.



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



NO WATER CONSUMPTION

Can be reduced down to zero



SAFE STOCK

No dust
No odor
No fermentation



EASY TO USE

No special license is needed to operate



NO WASTE SEGREGATION

Time saving



LOW ENERGY CONSUMPTION

ECOFRIENDLY
SUSTAINABLE
ECONOMIC