



THE GOAL:
0%
WASTE

TREATING WASTE
DIRECTLY ON SITE



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



CONVERTER[®]





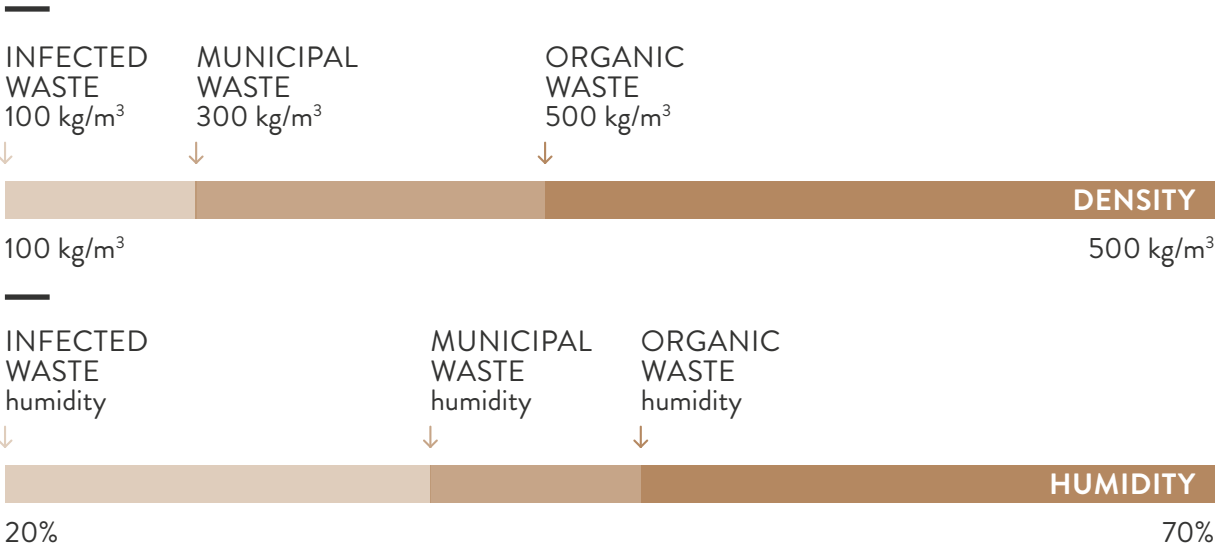
APPLICATIONS

_RESTAURANTS
_HOTELS
_BARS
_RESIDENCES
_HOMES
_RESORTS
_MALLS



Transform unsorted waste
into a 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



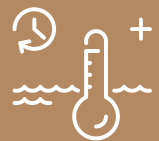
2.

EVAPORATION
BOILING



3.

HEATING
HIGH TEMPERATURE MOIST HEAT



THE PROCESS

SEVEN STEPS 30 MINUTES ONLY

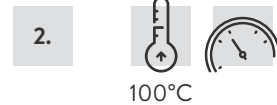


Converter® equipment is authorized to treat waste through physical modification, reduction of volume, dehydration and reduction of weight.



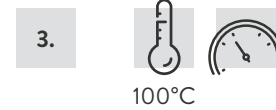
WASTE LOADING

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



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 firm at around 100°C.



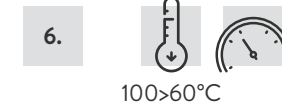
SUPERHEATING

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



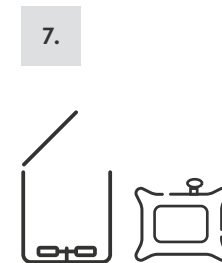
STERILIZATION OR PASTEURIZATION

The temperature of the material is held firm 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® MO 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.



UNRECOGNIZABLE
ODORLESS AND
PASTEURIZED

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