



OMPECO



THE GOAL:
0%
WASTE

CONVERTER[®]
TREATING WASTE
DIRECTLY
ON SITE

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



CONVERTER[®]





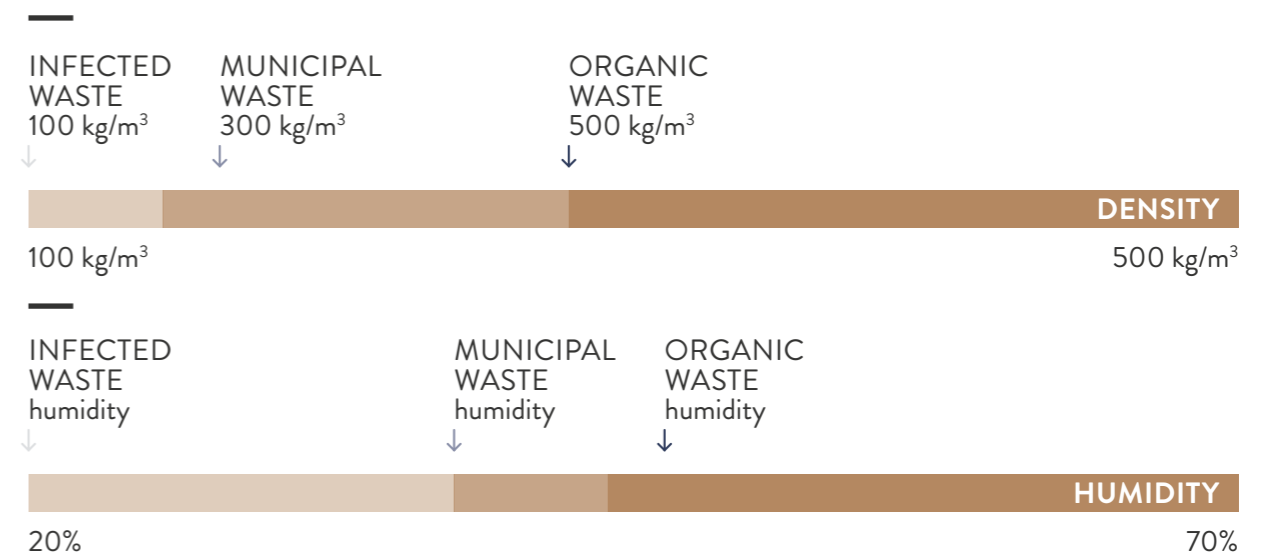
APPLICATIONS

- _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

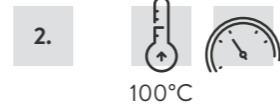


Converter® equipment is authorized to treat waste through physical modification, reduction of volume, dehydration and reduction of weight.



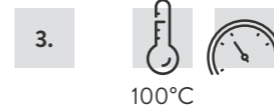
WASTE LOADING

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



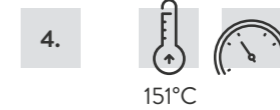
CRUSHING

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.



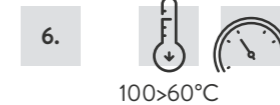
SUPERHEATING

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



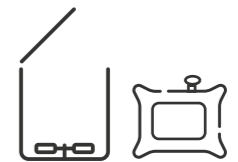
STERILIZATION OR PASTEURIZATION

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 affect the human health.

1 bacteria today → 5×10^{86} in 4 days

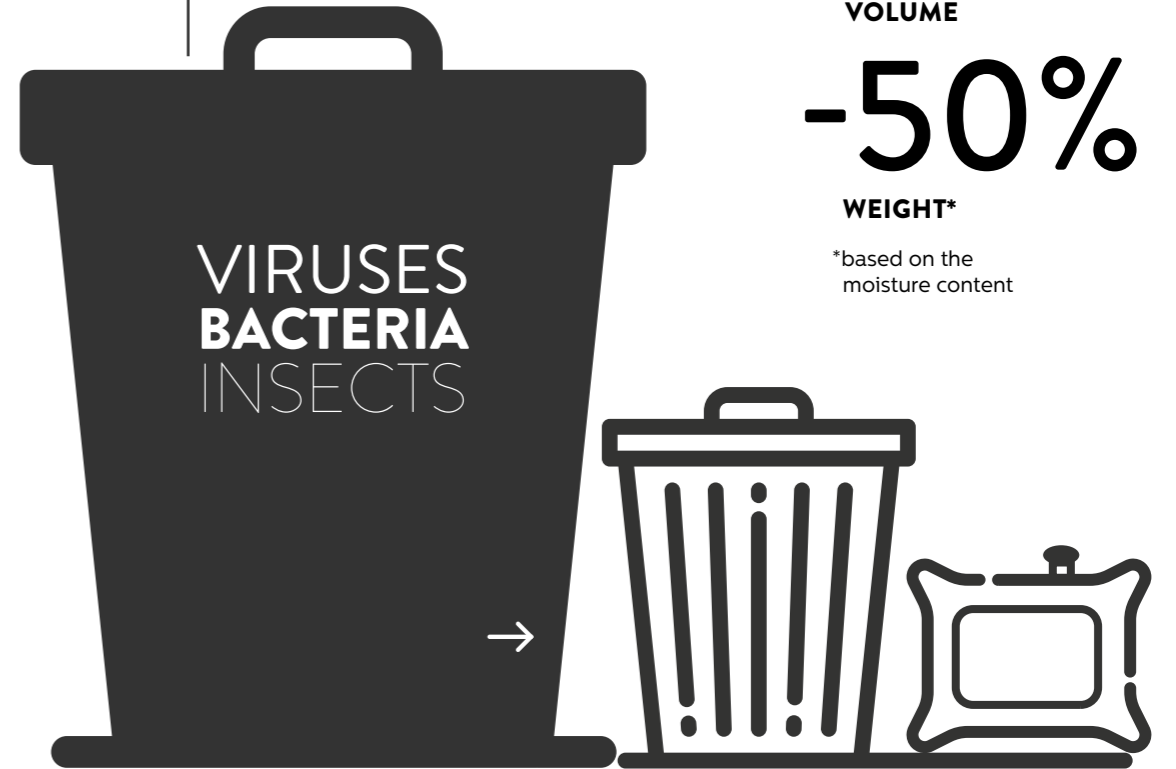


At the end of the treatment with the Converter® MO series the final product is a completely unrecognizable, odorless and sterile flock or “fluff”.

The weight is reduced by 50%, and the volume by 80%. if vacuum packed the volume is reduced further and the 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.



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



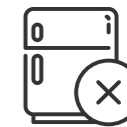
NO ODORS



**NO WASTE
MANAGEMENT**



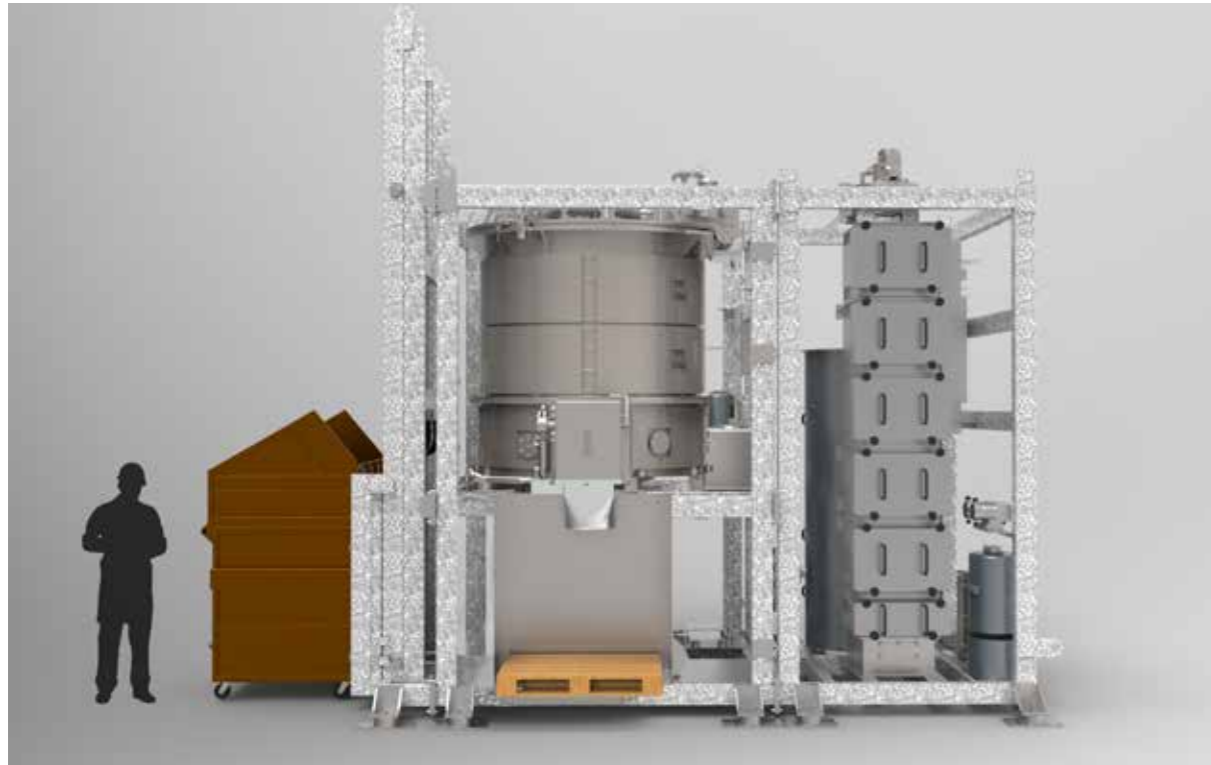
**NO WASTE STORAGE
EASY STORAGE
LESS SPACE REQUIRED**



**NO
REFRIGERATIONS**



CONVERTER® MO5000



TECHNICAL DETAILS

5000 liters waste

organic	→	500 to 600 kg/h
municipal	→	1500 to 1800 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[®] MO2000



TECHNICAL DETAILS



2000 liters waste

organic → 250 to 350 kg/h
municipal → 600 to 800 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® MO1000



TECHNICAL DETAILS

1000 liters waste

organic → 150 to 200 kg/h
municipal → 200 to 300 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[®] MO400



TECHNICAL DETAILS

400 liters waste

organic → 60 to 80 kg/h
municipal → 100 to 150 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
peak current [A]	150
electrical consumption [KW/Kg]	0,4 - 0,6

CONVERTER[®] MO200



TECHNICAL DETAILS



200 liters waste

organic	→	30 to 40 kg/h
municipal	→	40 to 80 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
peak current [A]	120
electrical consumption [KW/Kg]	0,4 - 0,6

CONVERTER[®] MO100



TECHNICAL DETAILS



100 liters WASTE

organic	→	15 to 20 kg/h
municipal	→	20 to 40 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
peak current [A]	80
electrical consumption [KW/Kg]	0,4 - 0,6

CONVERTER[®]

MO50_MO25



TECHNICAL DETAILS

MO50

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

MO25

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





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



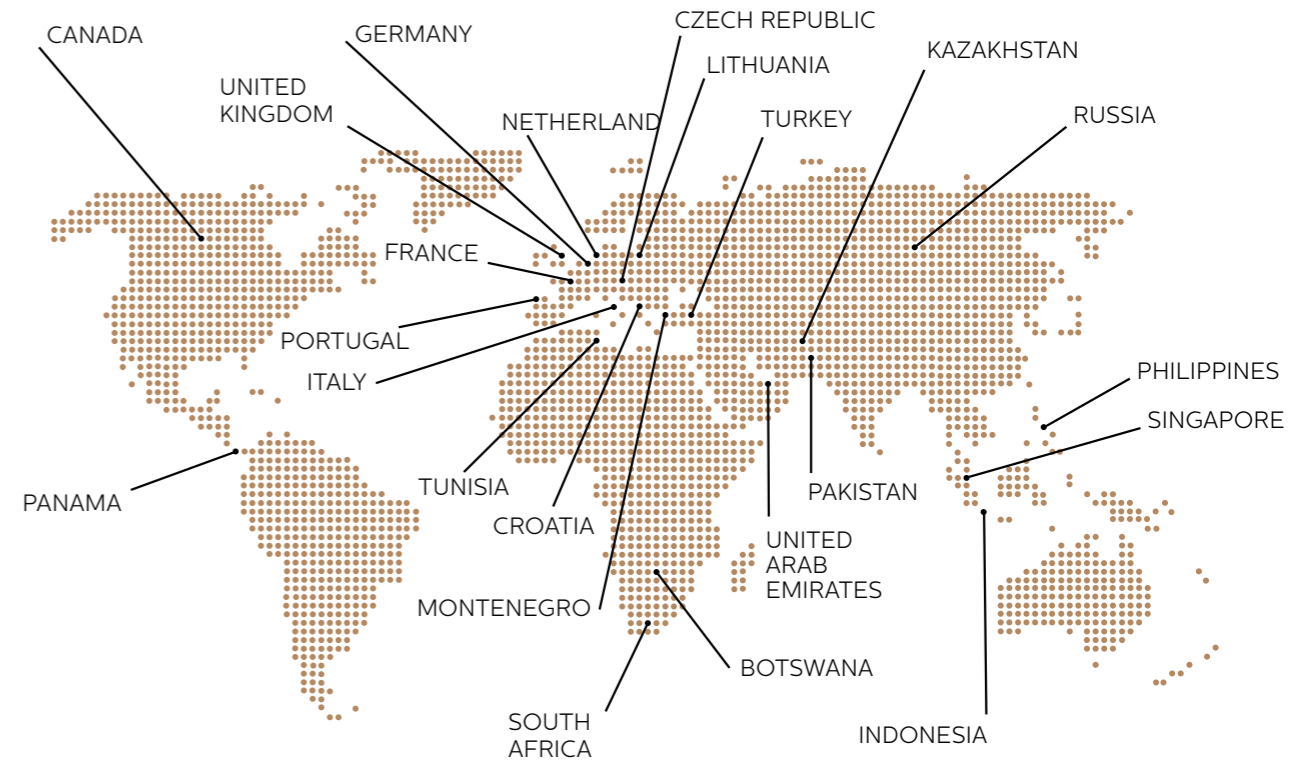
LOW ENERGY CONSUMPTION

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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Swiss
Quality

ISO 9001

