

The background of the image is a detailed camouflage pattern. It features irregular, organic shapes in a palette of olive green, tan, brown, and dark charcoal. The pattern is dense and covers the entire frame. The lighting is soft, highlighting the texture of the fabric, which appears to be a heavy-duty material like canvas or cotton twill. The folds and creases of the fabric create subtle shadows and highlights, adding depth to the visual.

OMPECO



THE GOAL:
0%
WASTE

CONVERTER®

TREATING WASTE DIRECTLY ON SITE



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





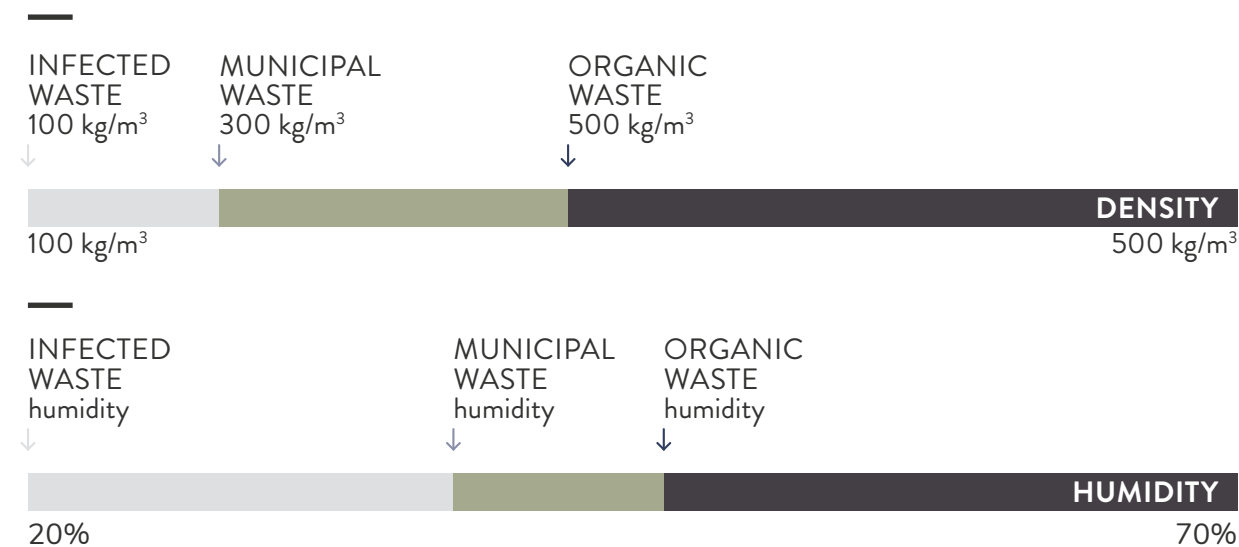
APPLICATIONS

_MILITARY BASES
_HUMANITARIAN CAMPS
_HOSPITAL CAMPS
_AIRPORTS
_CUSTOMS
_MILITARY SHIPS
_HARBOURS



Transform unsorted
waste into a dry,
stable product.

WASTE CHARACTERISTICS



HOW IT WORKS WORKING PRINCIPLES



SAFETY
Flame free!



SAFETY
The system does
not work under pressure!

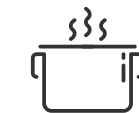
1.

WARM-UP
FRICTION



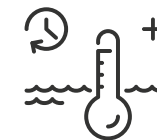
2.

EVAPORATION
BOILING



3.

HEATING
HIGH TEMPERATURE MOIST HEAT



THE PROCESS

SEVEN STEPS 30 MINUTES ONLY

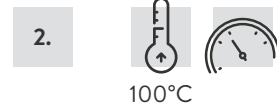


Converter® equipment is authorized to treat waste through physical modification, reduction of volume, dehydration and reduction of weight.



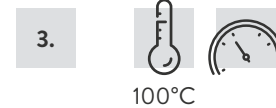
WASTE LOADING

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.



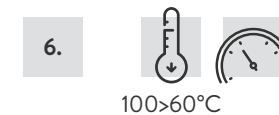
SUPERHEATING

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



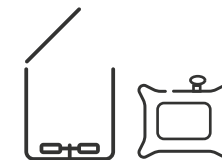
STERILIZATION OR PASTEURIZATION

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.

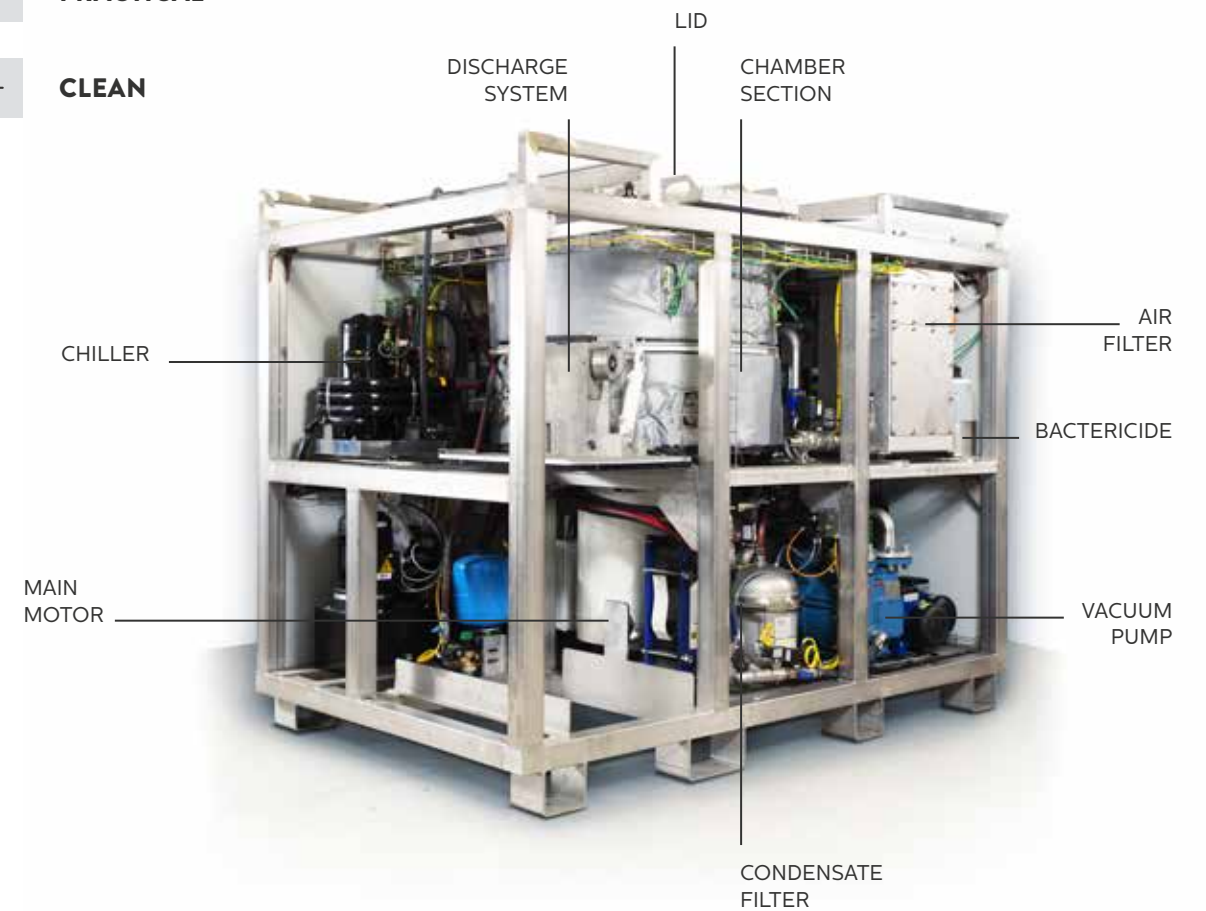


UNLOADING IN VACUUM BAG

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



- + **COSTS SAVING**
- + **SAFE**
- + **PRACTICAL**
- + **CLEAN**



THE RESULT LIGHT AND DRY

WASTE BIN IS AN IDEAL BACTERIAL CULTURE

Microorganism proliferation and spreading is the most common problem connected to the management of the waste, because it directly impacts human health.

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



At the end of the treatment with Converter 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









STANDARD EQUIPEMENT LAND USE



250 kW Diesel generator,
stabilized for excellent
voltage response, electric
starter kit



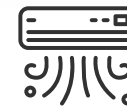
Special independent cooling
system including ventilation
system



Specially designed Water
Recycle System cooling
system including heavy duty
dry cooler



OPTIONS:
NATO Mimetic pattern
painting



Container Air conditioning
and Heating System (electric)



Condensate management
system with storage tank and
discharge pump



Soundproof protection
for the converter, auxiliary
components and container
itself



Pressurized system for
process water



Thermal protection of
the container to ensure
functioning at -10°C
below the external



Electric control board of
Container and auxiliary
components with PLC and 5,7"
color touch screen

CONVERTER[®] MOB20



↓
TECHNICAL DETAILS

200 liters waste

organic	→	30 a 40 kg/h
municipal	→	40 a 80 kg/h

400 liters waste

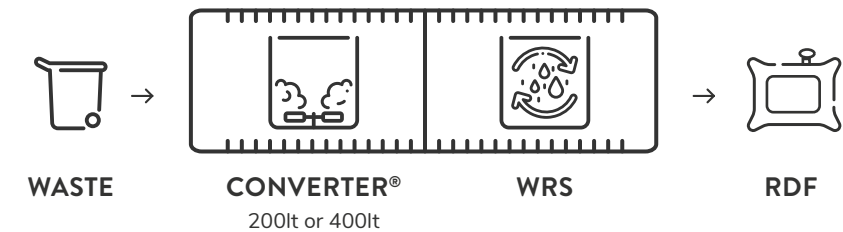
organic	→	60 a 80 kg/h
municipal	→	100 a 150 kg/h

→

NOTE
treatment capacities calculated
assuming:
• a density of 180kg/m³ and 50%
of humidity for Urban Waste
• a density of 100kg/m³ and 30%
of humidity for Medical Waste

Converter[®] 200 or 400 liters in container

1 Converter[®] 200 or 400 liters
1 radiator-type cooling unit
3 water tank
1 electric control board
Internal lighting system



CONVERTER[®] MOB40



↓
TECHNICAL DETAILS

400 liters waste

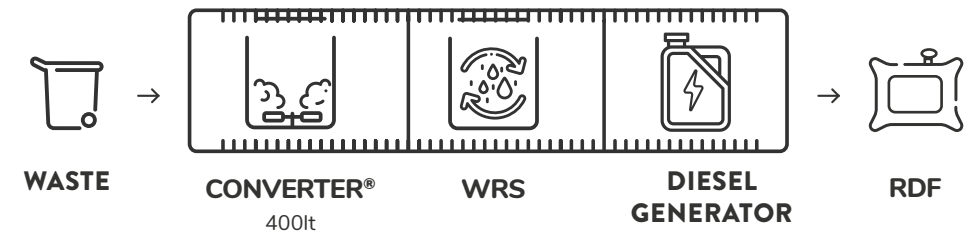
organic	→	60 a 80 kg/h
municipal	→	100 a 150 kg/h

NOTE
treatment capacities calculated
assuming:
• a density of 180kg/m³ and 50%
of humidity for Urban Waste
• a density of 100kg/m³ and 30%
of humidity for Medical Waste

Converter[®] 400 liters in container

1 Converter[®] 400 liters
1 radiator-type cooling unit
3 water tank
1 diesel generator - autonomy 8h
1 electric control board
Internal lighting system

→



CONVERTER[®] MOB40 PLUS



↓
TECHNICAL DETAILS

400 liters waste

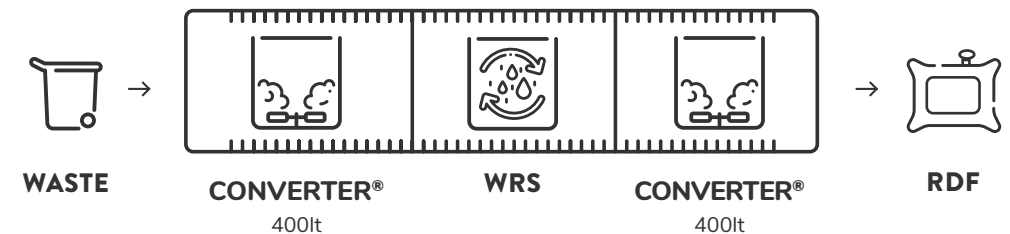
organic	→	60 a 80 kg/h
municipal	→	100 a 150 kg/h

NOTE
treatment capacities calculated
assuming:
• a density of 180kg/m³ and 50%
of humidity for Urban Waste
• a density of 100kg/m³ and 30%
of humidity for Medical Waste

2 Converters[®] 400 liters in container

2 Converter[®] 400 liters
1 radiator-type cooling unit
3 water tank
1 electric control board
Internal lighting system

→







CONVERTER® NV200



TECHNICAL DETAILS

400 liters waste		Specification	
organic	→ 60 to 80 kg/h	treatment chamber volume [lt]	400
municipal	→ 100 to 150 kg/h	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® NV100



TECHNICAL DETAILS

200 liters waste		Specification	
organic	→ 30 to 40 kg/h	treatment chamber volume [lt]	200
municipal	→ 40 to 80 kg/h	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® NV60



TECHNICAL DETAILS

100 liters WASTE		Specification	
organic	→ 15 to 20 kg/h	treatment chamber volume [lt]	100
municipal	→ 20 to 40 kg/h	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



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

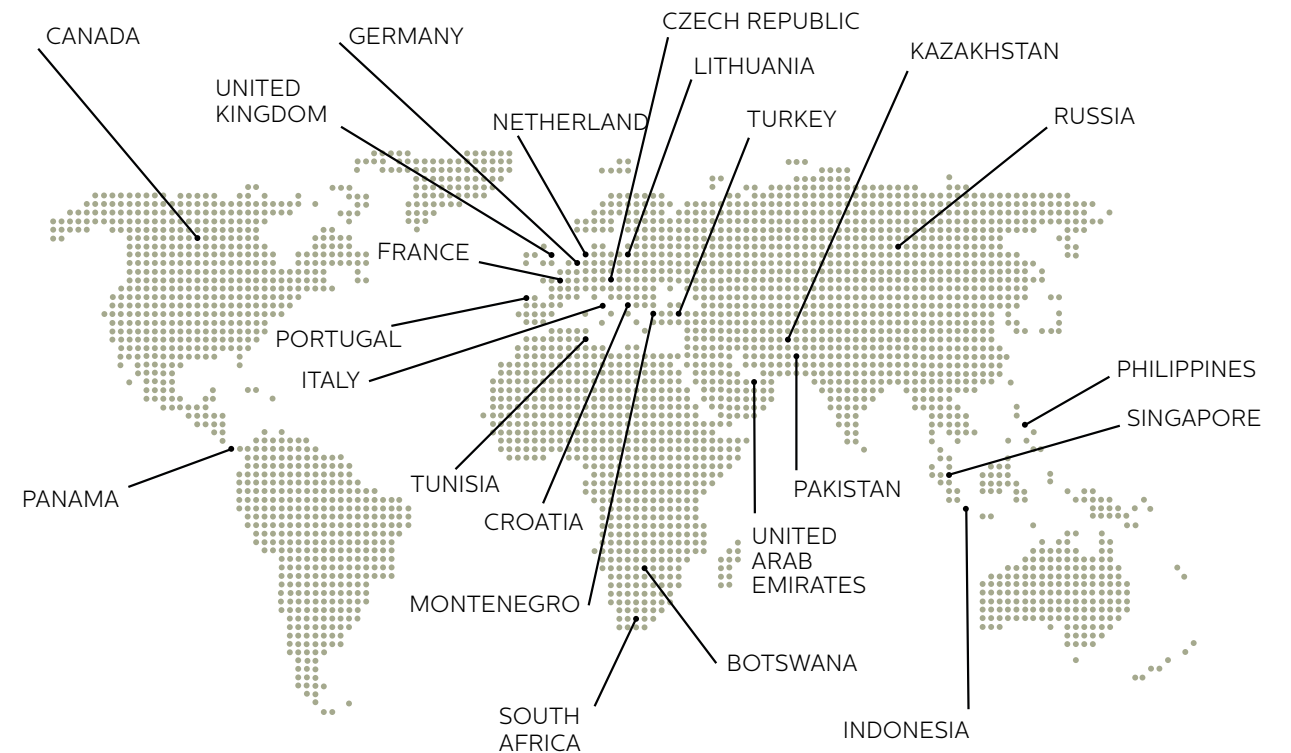
ECOFRIENDLY SUSTAINABLE ECONOMIC



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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Quality

ISO 9001

