

An aerial photograph showing a vast, continuous layer of white, fluffy clouds stretching across the horizon. The sky above is a clear, deep blue, with a thin layer of lighter blue near the horizon. The clouds are dense and appear to be illuminated from above, creating soft shadows and highlights.

OMPECO



THE GOAL:
0%
WASTE



CONVERTER[®] MO

TREATING INTERNATIONAL
CATERING WASTE

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



Transform
unsorted
waste into
a dry, stable
product.

APPLICATIONS

CONVERTER® MO

_DOMESTIC AVIATION WASTE
_INTERNATIONAL CATERING WASTE
_AIRPORT CONCESSION WASTE

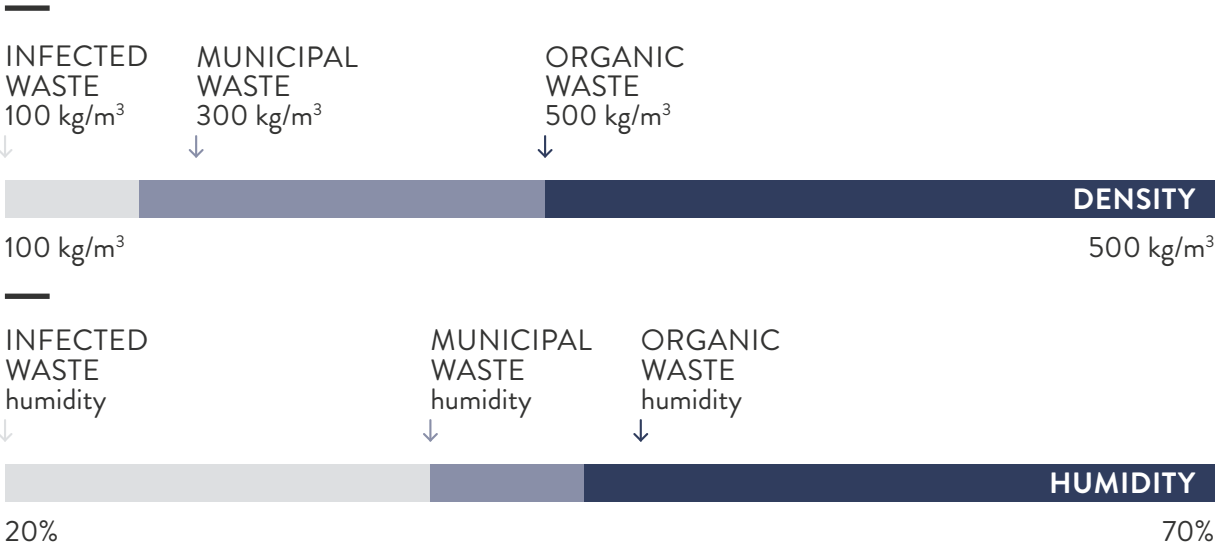




WWW.OMPECO.COM

AVIATION WASTE

CHARACTERISTICS



ACCREDITATION

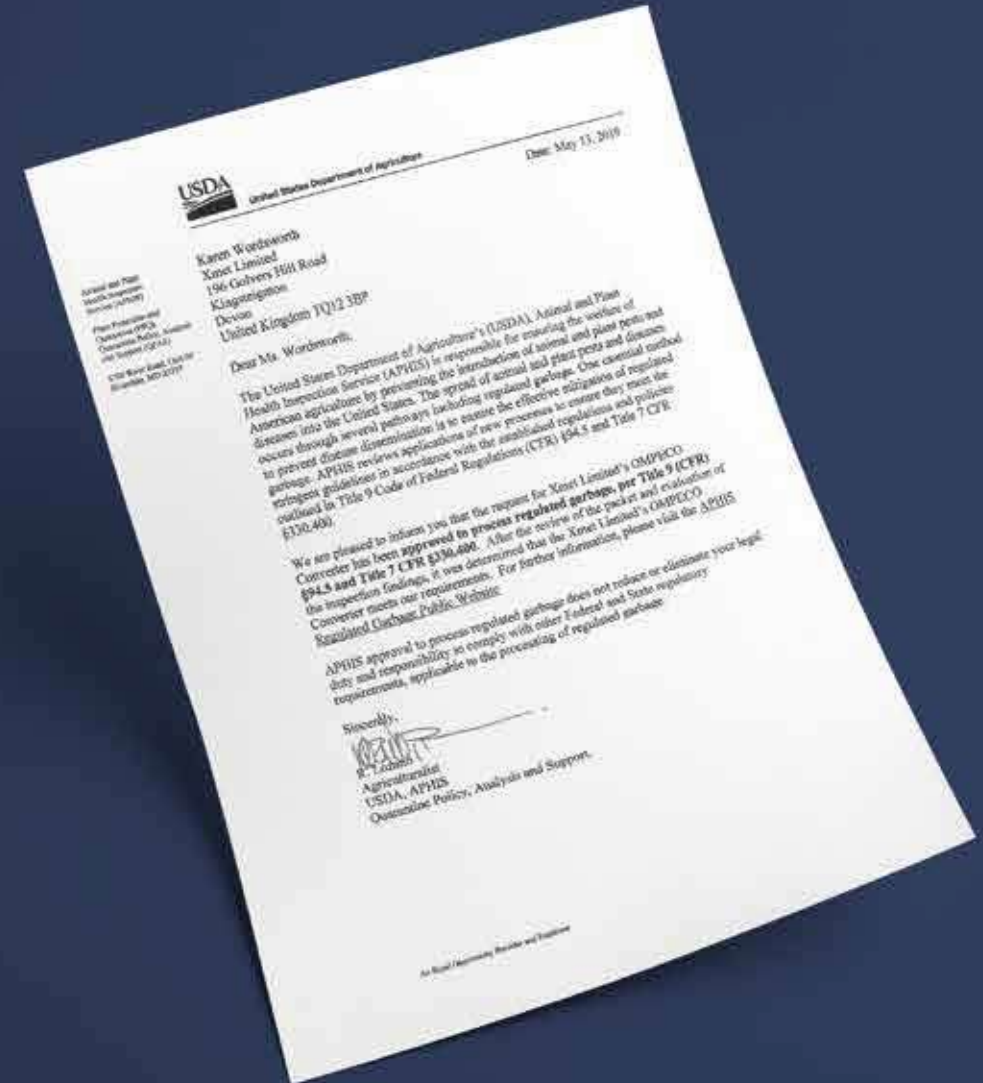
USA - ICW - REGULATED GARBAGE



UNITED STATES
DEPARTMENT OF
AGRICULTURE

Under Title 9 Code of Federal Regulations (CFR) 94.5 and Title 7 CFR 330.400 APHIS has set the legal requirement for processing ICW.

May 13 2019 the X~Met OMPECO Converter was approved to process regulated garbage.



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

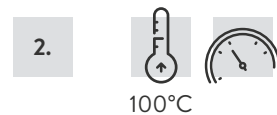


Converter® equipment is authorized to treat waste through physical sterilization, modification, reduction of volume, dehydration and reduction of weight.



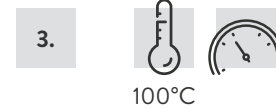
WASTE LOADING

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



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.



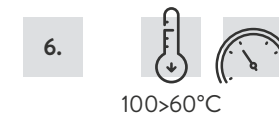
SUPERHEATING

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

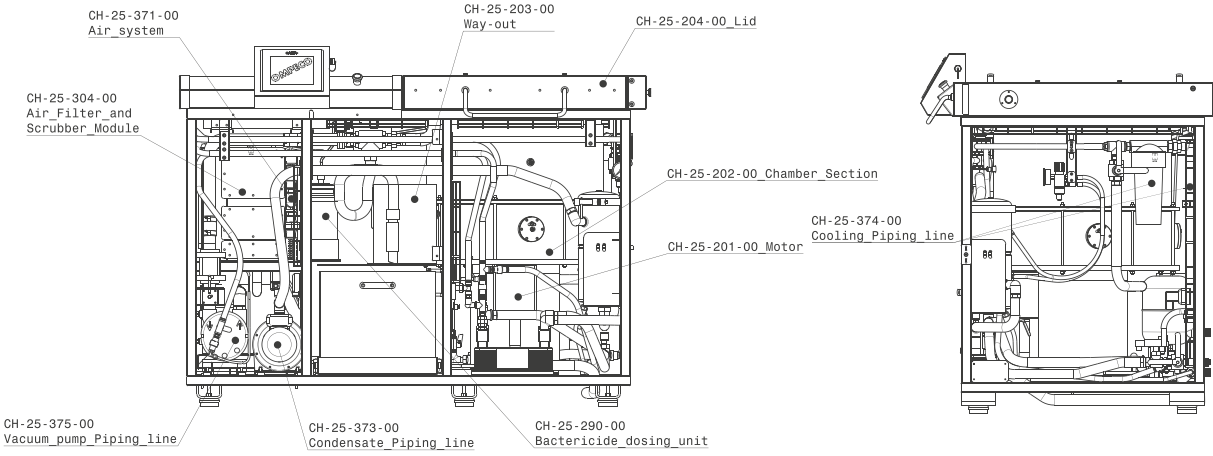
The treated material is unloaded by centrifugal force through the opening of a servo-operated valve positioned at the bottom of the treatment chamber.



WWW.OMPECO.COM

TECHNOLOGY

ECONOMIC, SAFE,
PRACTICAL AND CLEAN





 WWW.OMPECO.COM

FINAL PRODUCT



In the UK & EU and territories not operating under US regulations, the product needs to be disposed of according to current practices.



Converter® MO series is specifically tailor made for any kind of waste except chemical, toxic, explosive or radioactive.



CONVERTER® MO



WWW.OMPECO.COM

THE RESULT

LIGHT AND DRY

**-80%
VOLUME**

**-50%
WEIGHT***



At the end of the treatment with the Converter® MO the final product, generally considered a “fluff”, is completely **unrecognizable, odorless and completely sterile.**

The weight is reduced by 50%, and the volume by 80% by the Vacuum pack.

The vacuumed bricks can be stored for long periods, without smell, dust and the need to refrigerate.

* based on the moisture content

ADVANTAGES

EXPERTISE AND EXPERIENCE



NO POLLUTANT EMISSIONS

Liquids present in the waste are separated and condensed



WATER CONSUMPTION

Can be reduced down to zero



NO WASTE SEGREGATION

Time saving



SAFE STOCK

No dust
No odor
No fermentation



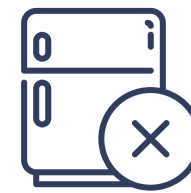
EASY TO USE

No special license is needed to operate



VOLUME REDUCTION

Up to 80%



REFRIGERATION ROOM NOT REQUIRED



FAST CYCLE

Converter® technology cycle lasts less than 30 minutes



WWW.OMPECO.COM

FLUFF USE

REFUSE DERIVED FUEL

MUNICIPAL WASTE
3.5 ÷ 4.5 MWh/t*

EUROPEAN WASTE CODE:
19.12.10 - 20.03.01

* nominal value



FLUFF



OIL



INCINERATOR



POWER
PLANT



NO COMPETITION

Converter® is a convenient solution in every aspect.

	AUTOCLAVE	INCINERATOR	CONVERTER®
	↓	↓	↓
Dry	×	✓	✓
Weight reduction	×	✓	✓
Volume reduction	✓	✓	✓
Safety	×	×	✓
No civil works	×	×	✓
No emission	×	×	✓
Treatment duration	60'	Non stop	Less than 30'
Environmentally friendly	×	×	✓
Pressure	High	Neutral	Low/negative
Easy to operate	×	×	✓



THE RANGE

DISCOVER THE FLEET

WWW.OMPECO.COM

100
LITERS
WASTE



200
LITERS
WASTE



400
LITERS
WASTE



1000
LITERS
WASTE



2000
LITERS
WASTE



5000
LITERS
WASTE





WWW.OMPECO.COM

CONVERTER® MO100

100 LITERS WASTE:

organic:
25 to 30 kg/h

municipal:
30 to 40 kg/h

PRODUCTIVE CAPACITY:

treatment chamber volume	100 lt
machine dry weight	900 kg
machine footprint	1500x900mm 1250h
electric cabinet weight	210 kg
electric cabinet footprint	800x500mm 1600h
total installed power	45 kW
nominal motor power	35 kW
electrical consumption	0,4 - 0,5 kW/h/kg
cooling water supply	1200 l/hr





WWW.OMPECO.COM

CONVERTER® MO200

200 LITERS WASTE:

organic:
40 to 60 kg/h

municipal:
60 to 80 kg/h

PRODUCTIVE CAPACITY:

treatment chamber volume	200 lt
machine dry weight	1300 kg
machine footprint	2000x1000mm 1400h
electric cabinet weight	250 kg
electric cabinet footprint	800x500mm 1600h
total installed power	75 kW
nominal motor power	60 kW
electrical consumption	0,4 - 0,5 kW/h/kg
cooling water supply	1500 l/hr





www.ompeco.com

CONVERTER® MO400

400 LITERS WASTE:

organic:
80 to 120 kg/h

municipal:
100 to 160 kg/h

PRODUCTIVE CAPACITY:

treatment chamber volume	400 lt
machine dry weight	2200 kg
machine footprint	2250x1600mm 1850h
electric cabinet weight	300 kg
electric cabinet footprint	800x500mm 1600h
total installed power	100 kW
nominal motor power	77 kW
electrical consumption	0,4 - 0,5 kW/h/kg
cooling water supply	2500 l/hr





www.ompeco.com

MOBILE UNIT



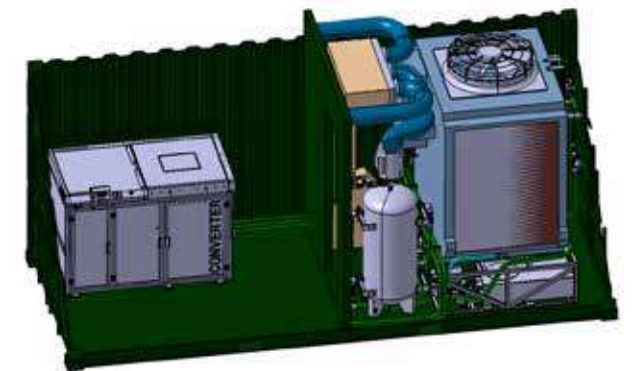
MOBILE UNIT 20"

- 1 Converter® (100-200-400 liters)
- 2 water tanks
- 1 radiator-type cooling unit
- 1 electric panel



MOBILE UNIT 40"

- 2 Converter® (200-400 liters)
- 1 diesel generator
- 2 water tanks
- 1 radiator-type cooling unit
- 1 electric panel





CITIES
FARMS



OFFSHORE
RIG



SUPER YACHTS
CRUISE LINERS



MALLS
MARKET PLACES
INDUSTRIES



AIRPORTS
CUSTOMS
PORTS



LARGE BUILDINGS
VILLAGES
ISLANDS



HOTELS
RESORTS
GOLF COURSES



MILITARY BASES
HUMANITARIAN CAMPS
HOSPITAL CAMPS



SEIZED ITEMS
MARIJUANA



MUNICIPAL
WASTE



HOSPITAL
WASTE



INDUSTRIAL
WASTE



AGRICULTURAL
WASTE

WWW.OMPECO.COM

A RANGE SUITABLE FOR



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 luxury Yachts over 60 m.



OMPECO

OMPECO s.r.l.

Via Cavalieri del Lavoro, 16

10024 Moncalieri

Torino, Italy

T. +39 011 02.40.108

www.ompeco.com

info@ompeco.com

Legal headquarters
and billing address:

Corso Laghi, 26

10051 Avigliana - Torino, Italy

Reg. Imp. RI/PRA/2014/46068/800

R.E.A. di Torino 1188899

VAT n° IT1118350013



Information, photos and description contained in this publication
are supplied for illustrative purposes and are not binding.