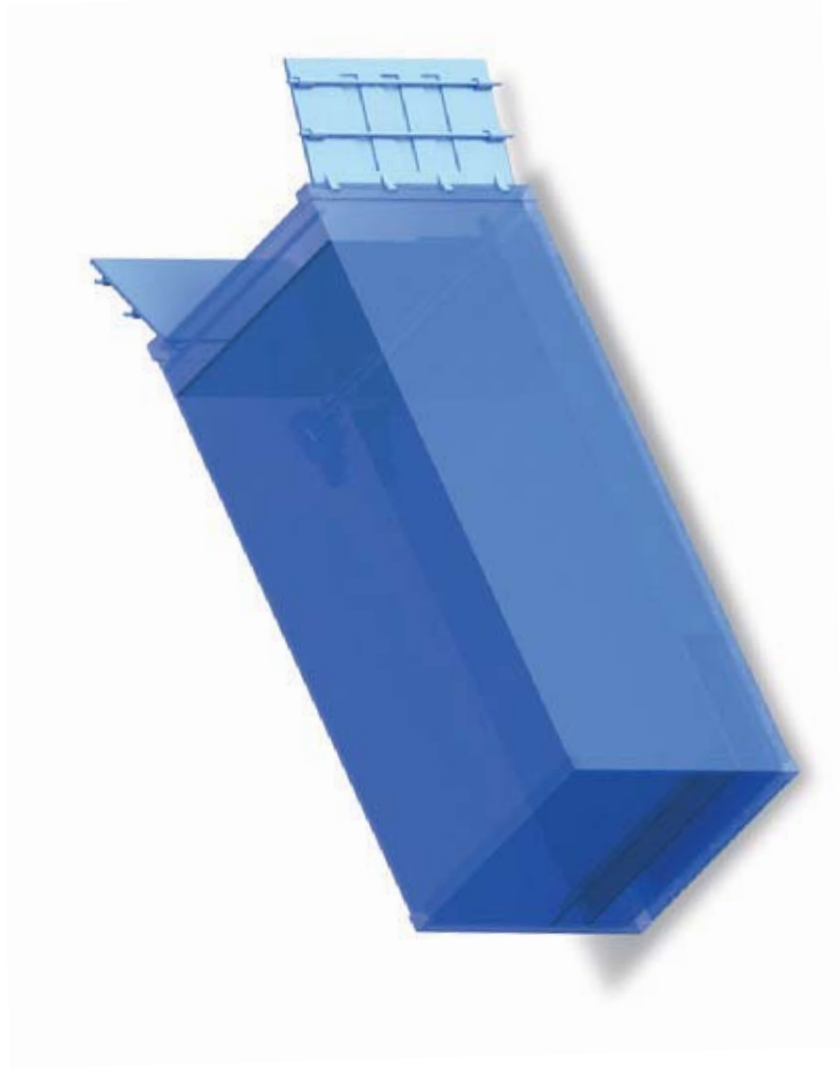




MOVING FLOOR
INJECTION DRYER 



CONTAINER DRYERS



HOOK LIFT CONTAINER DRYERS

- Length = 6800 mm
 - ▶ 30 m³
- Length = 6000 mm
 - ▶ 28 m³
- Length = 5000 mm
 - ▶ 24 m³

CONTAINER DRYERS

According to ISO 668

20 feet container :

- ▶ Width 2,4 m
- ▶ Length 6 m
- ▶ Height 2,4 m

40 feet container :

- ▶ Width 2,4 m
- ▶ Length 12 m
- ▶ Height 2,4 m



STANDARD EXTERIOR



COMPACT INTERIOR

MULTI STAGE DRYERS



MaB proposes a number of stages which is adapted to the drying task:

MaB proposes standard container lengths

- ▶ 4 m ◀
- ▶ 6 m ◀
- ▶ 8 m ◀
- ▶ 12 m ◀

SIMPLE STAGE DRYER

Simple drying tasks.

DOUBLE STAGE DRYER

The first stage is a feeding hopper, the second stage finalizes the drying work.

TRIPLE STAGE DRYER

1 hopper dryer + 2 finalizing dryers which are adapted to difficult drying tasks.

4 STAGE DRYER

The 4th stage is dedicated to an additional task such as cooling down of material, intermediate storage for downstream press etc.

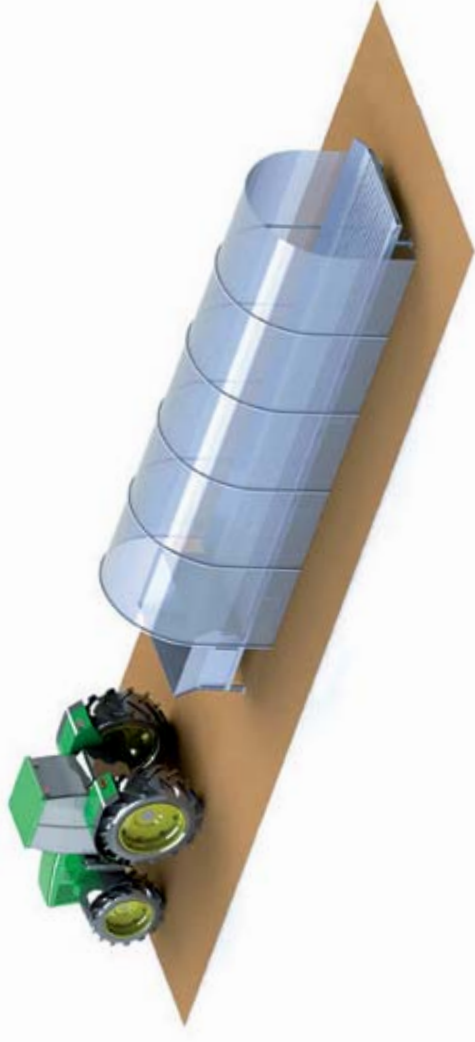
5 STAGE DRYER

An upstream hopper helps to pre-dry material before feeding the 4 stage dryer.

DRYER STAGES AS MODULES



AGRICULTURE & BIOGAS



MaB proposes drying systems using different kinds of heat:

BIOGAS

Use of the heat which is generated by biogas burning.

INDUSTRIAL PROCESSES

Use of waste heat coming from compressors, freezers and other production machines.

AGRICULTURAL APPLICATIONS

Waste heat coming from poultry production etc.

GREENHOUSE EFFECT

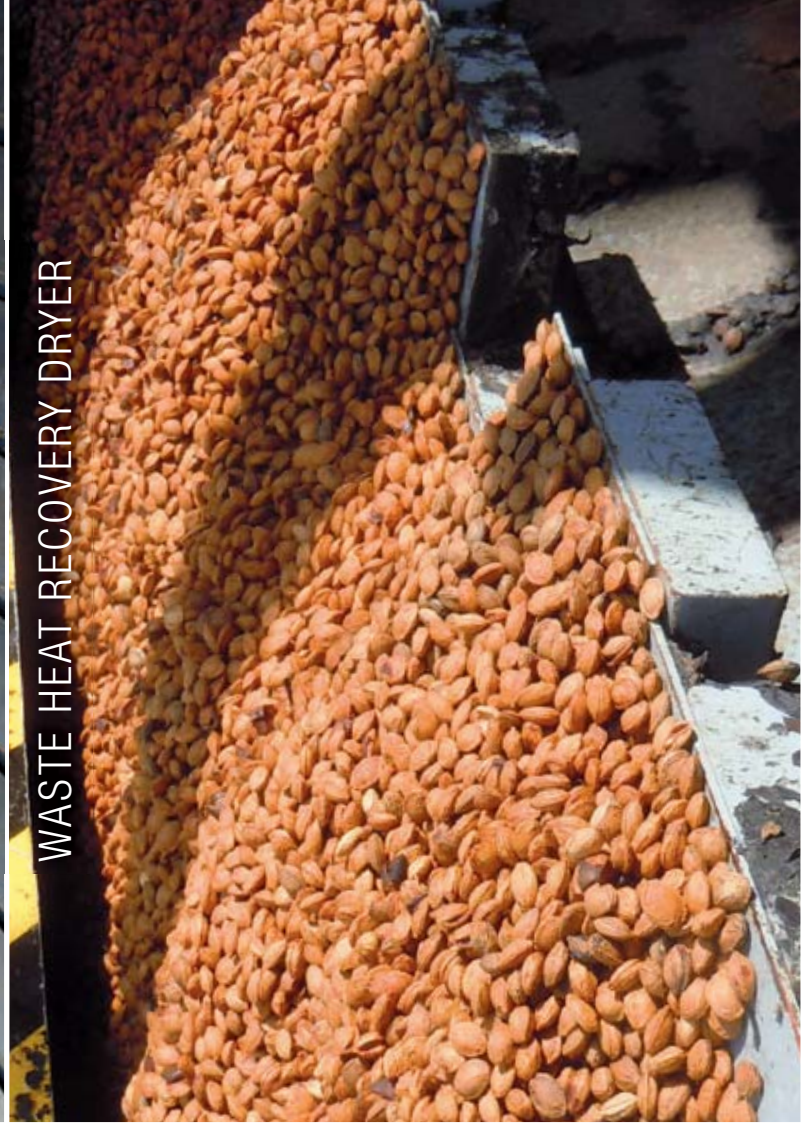
Use of greenhouse warmth or hot air coming from solar air collectors

SOLAR ENERGY

Using the heat of hot water or glycol coming from solar panels.



GREENHOUSE DRYER



WASTE HEAT RECOVERY DRYER

PRE-DRYING IN THE HOPPER



METERED OUTLET IN THE END OF THE 2ND STAGE



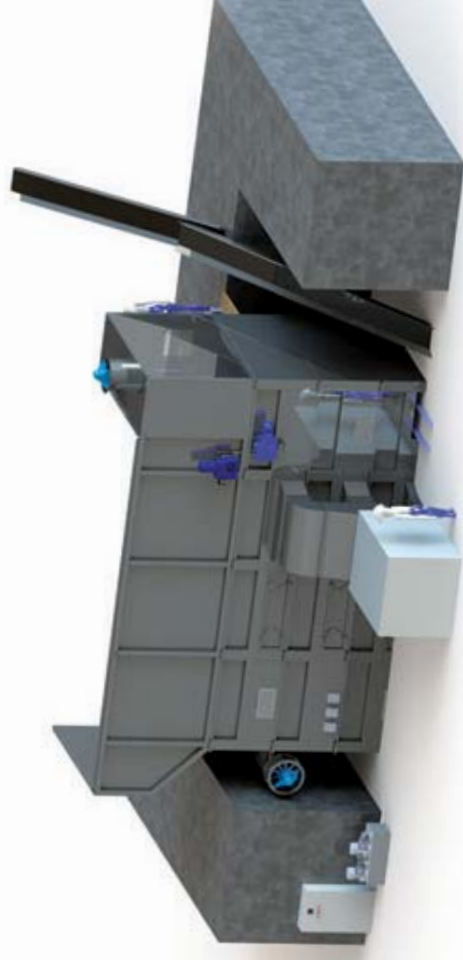
HOMOGENEOUS MIXTURE



TRANSFER UNDER THE LAYER LIMITER



SAWDUST & WOOD CHIPS



MaB HAS SOLUTIONS FOR VARIOUS WOOD DRYING TASKS:

- ▶ Wood chip pre-drying from 50 % to 30 % of humidity.
- ▶ Wood chip final drying from 50 % à 15 % of humidity.
- ▶ Sawdust from 30 % to 10 % of humidity, adapted to pellet production.
- ▶ Mixed biomass types (such as lawn, branches, kitchen waste) from 50 % to 20 % of humidity.

MaB PROPOSES ADAPTED SOLUTIONS:

- ▶ Speed adaptation for drying target.
- ▶ Layer height according to material composition and particle size.
- ▶ Temperature: According to the difficulty of the drying task, MaB recommends the minimum heat temperature.
- ▶ Air pressure and throughput: according to heat calculations, MaB recommends these air parameters.

REFUSE-DERIVED FUEL (RDF) DRYING



COFFEE CAP DRYING



RIVER WASTE DRYING



SHREDDED ORGANIC WASTE DRYING



REFUSE-DERIVED FUEL (RDF) & WASTE



MAB PROPOSES SOLUTIONS FOR DIFFERENT PROFIT GOALS:

- ▶ Reduce the water percentage in order to simplify handling and transport
- ▶ Make biomass hygienic for storage
- ▶ Prepare products for recycling
- ▶ Rise the calorific value of RDF

MAB PROPOSES MACHINE SOLUTIONS, SUCH AS:

- ▶ Simple stage dryer with a natural ventilation
- ▶ Double stage dryer in a greenhouse
- ▶ Triple stage dryer with adapted fans at each stage

POSTCARDS FROM OUR EUROPEAN REFERENCES

Guernsey / England
Mini Bag Opener for packaging waste



Louvain / Belgium
Simple stage dryer for RDF



Zeewolde / Netherlands
Double stage dryer for digestate



Sankt Pölten / Austria
Metering and feeding hopper



Budapest / Hungaria
Metering and feeding hopper



Fribourg / Switzerland
4 stage dryer



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