

# HBC

## HYGIENIZING BIOCELL



TRANSFORM SLURRY INTO  
COMFORTABLE AND HYGIENIC  
BEDDING



**ELIMINATE  
SAND/  
SAWDUST**

**SIGNIFICANT SAVINGS**



**HEALTHY  
COWS**

**... AND HEALTHY MILK**

**INNOVATIVE  
FREE STALL BEDDING  
SYSTEM**





**The Best Choice**



# Main strengths: Hygienizing Biocell

## **Consistent quality**

The machine's electronic control system ensures hygienisation of the material through a pasteurization process.



## **Financial savings**

By balancing the savings obtained from using hygienized solids in the place of traditional bedding (straw, sand, sawdust, etc.) it can easily be verified that returns on the investment are achieved within a few years.



## **Easy to use**

The machine is simple to assemble (install) and easy to use thanks to its "user friendly" control system.



## **Improved and more economic management of manure**

The quantity of manure to be managed is reduced since traditional bedding materials are not present.

## **Low energy consumption**

Maximum power consumption 8.7 HP.

## **Additional storage is not required**

The hygienized solid material is produced daily and so additional storage is not required (in barns) as is the case with traditional bedding materials.



**Option of remote control**  
It is possible to control the operation of the machine from an office PC (temperature, weight, unloaded material, alarms history, etc.).



## **Very compact size**

The overall dimensions of the machine are very small compared to competing systems.



## **Easy to transport**

The machine is modular and so a 20 foot container is sufficient for transport.





# Hygienizing Biocell



Manure



Liquid fraction

Hygienized solid

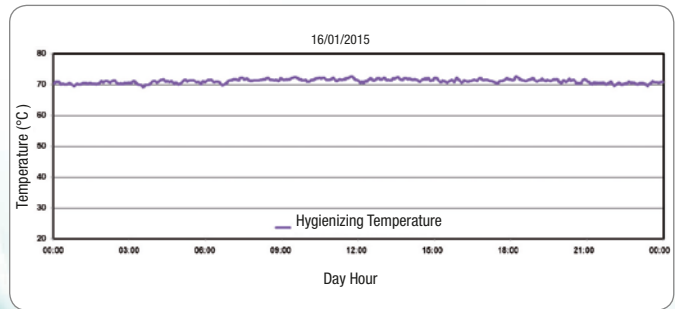


## Operating performance:

- Production: up to 8 t/day of hygienized solids.
- Hygienisation: guaranteed pasteurization system (1 hour at 158°F).
- Drying: up to 55% of dry material (by adjustment of the HRT).

## Process:

The process of biodrying or biostabilization occurs inside the HBC biocell: the presence of oxygen (air) supports an aerobic process of biological degradation of the organic substances present in cow manure. The process is highly exothermic and the resulting heat production is used to ensure the hygienisation of the product and to evaporate the water content. The exothermic biological process means that the material remains at a temperature of 158°F for at least 60 minutes, ensuring pasteurization.



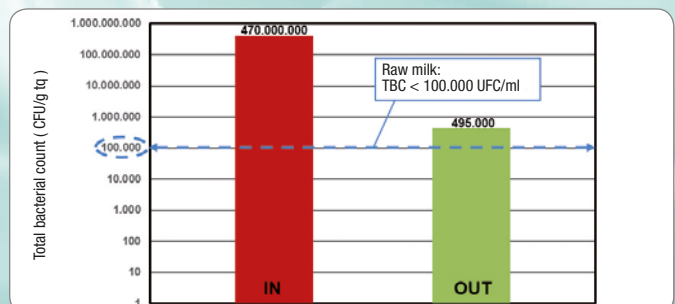
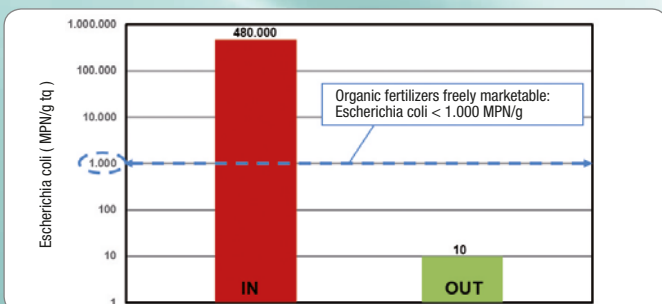
## Quality of hygienized solid<sup>(1)</sup>:

### Escherichia coli

- Limit value 1.000 MPN/g according to
- Animal by-products after pasteurization (Legislative Decree n. 75/2010).
  - Freely marketable organic fertilizers (Reg. UE 142/2011).

### Total Bacterial Count TBC

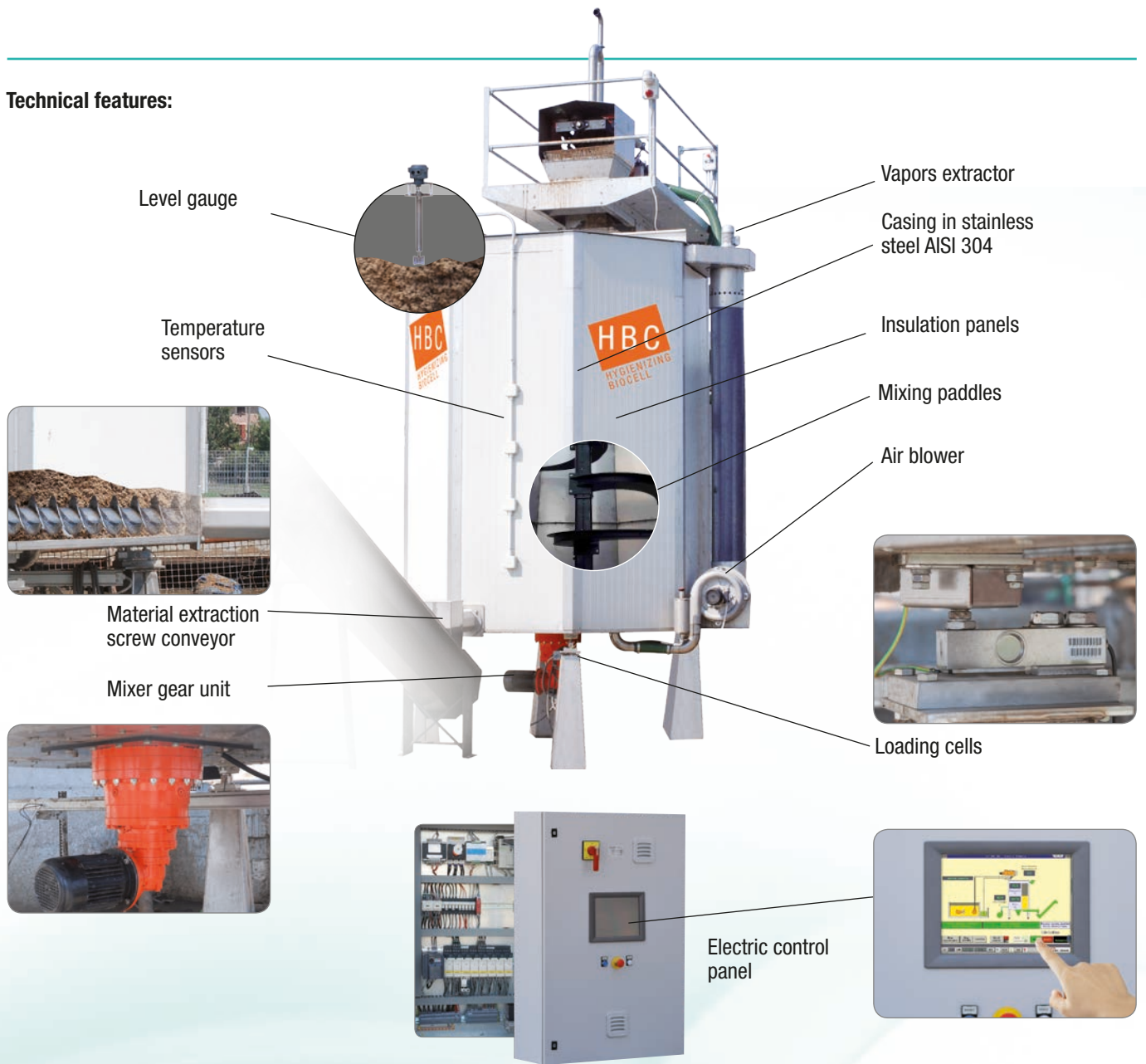
In Europe there are not official limits for TBC. As only indicative information, the limit value for raw milk is 100.000 UFC/ml.



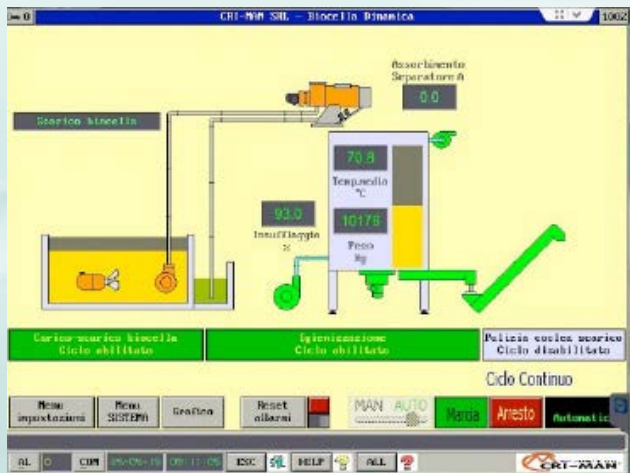
(1) Analyses relating to Laboratory tests. Absence of salmonella.



**Technical features:**



**Operational functioning of the software:**



- Biomass temperature.
- Biomass weight.

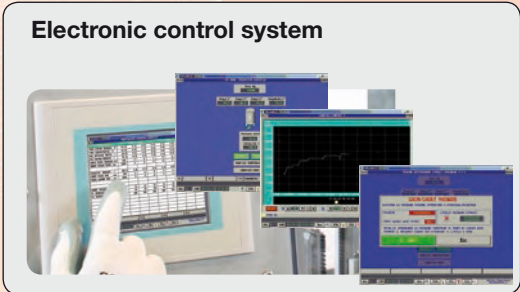
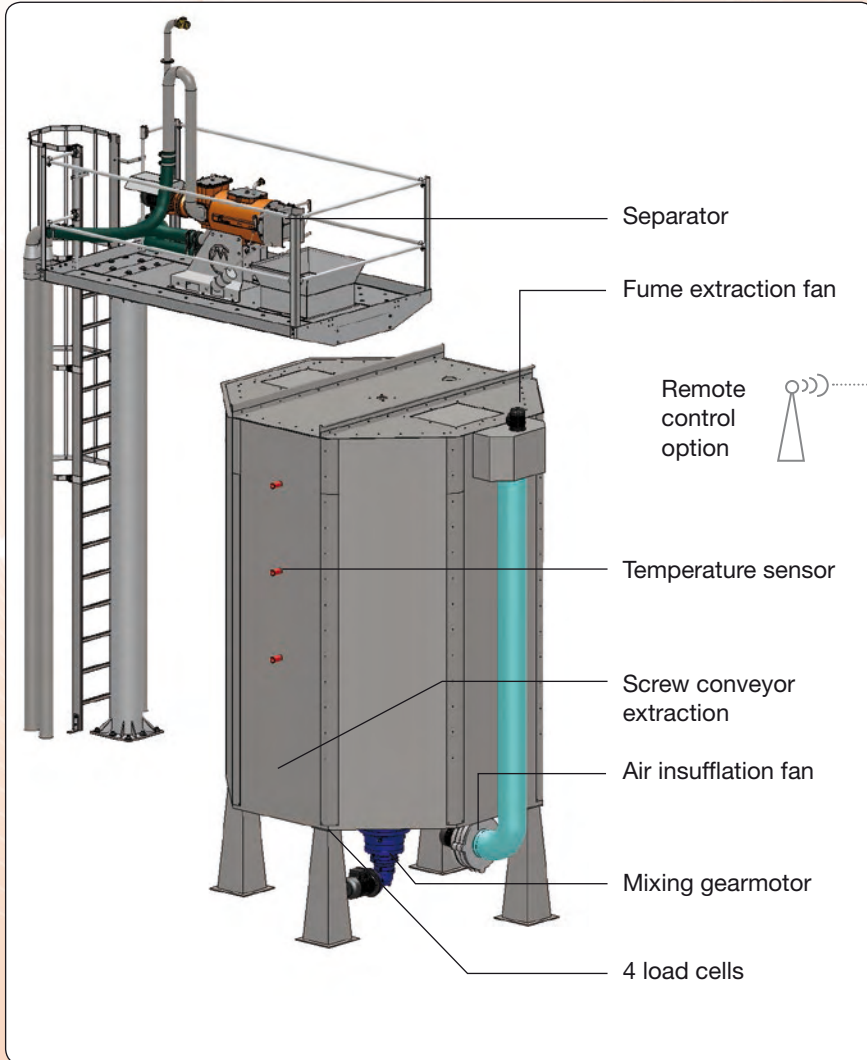


- Air blower adjustment.
- Constant monitoring of unloaded material: Hygienisation.
- Full system management: mixer, pump, separator.





# INNOVATIVE FREE STALL BEDDING SYSTEM



**Guaranteed product with double certification**

Analyses relating to laboratory tests

**Advantages:**

- Cost savings
- Daily operation
- Consistent quality
- Easy to use
- Improved, more economic management of slurry
- No additional storage requirements
- Extremely limited overall dimensions



Model	Number of head	Overall dimensions [ft]	Total Energy Consumption [HP]
HBC 500	up to 500	8.48 x 7.45 x 15.18	7.4
HBC 1000	up to 1000	13.23 x 11.08 x 16.05	8.7
HBC 2500	up to 2500	17.54 x 16.83 x 14.86	14.1



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Sustainable Solutions

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