

**21 MONFALCONE (GO) ITALY**

Year	2000
Client	MUNICIPALITY OF MONFALCONE
Operator	MUNICIPALITY OF MONFALCONE
System description	Big Bag composting
Waste processed	Garden waste
Plant capacity	24 big bags



The core of this facility is its big-bag composting system, a technology invented and developed by Ecomaster whose innovative content was recognized by both the European Patent Office and the United States Patent Office.



This plant is based on the big bag composting system, a technology ideated and developed by Ecomaster which has innovative content recognized both by the European Patent Office and the United States Patent Office. These two bodies, after a severe examination procedure, have both accepted the patent application submitted by Ecomaster for this industrial invention.

Organic waste from gardens is composted in big bags made of a synthetic fabric permeable to air. Each big bag may contain approximately 1,400 liters of material, which corresponds to a weight of 700 kg approximately.

Aerobic conditions, fundamental for a proper biological process, are maintained by forced ventilation of the mass through a perforated duct, which is placed inside the big bag before its filling. These ducts are connected to the system ventilator through flexible air ducts with quick release connections.

The control system includes temperature sensors surveying both the temperature inside the big bags and ambient air temperature. For larger applications, the system also includes measuring equipment for monitoring the temperature and oxygen content of process air. This data, together with other parameters, are used by the computerized control system which includes a PC graphics display.

The big bags hang on a metal structure, made of hot galvanized steel; big bags can be handled using a fork lift and they can be stacked up to three levels.

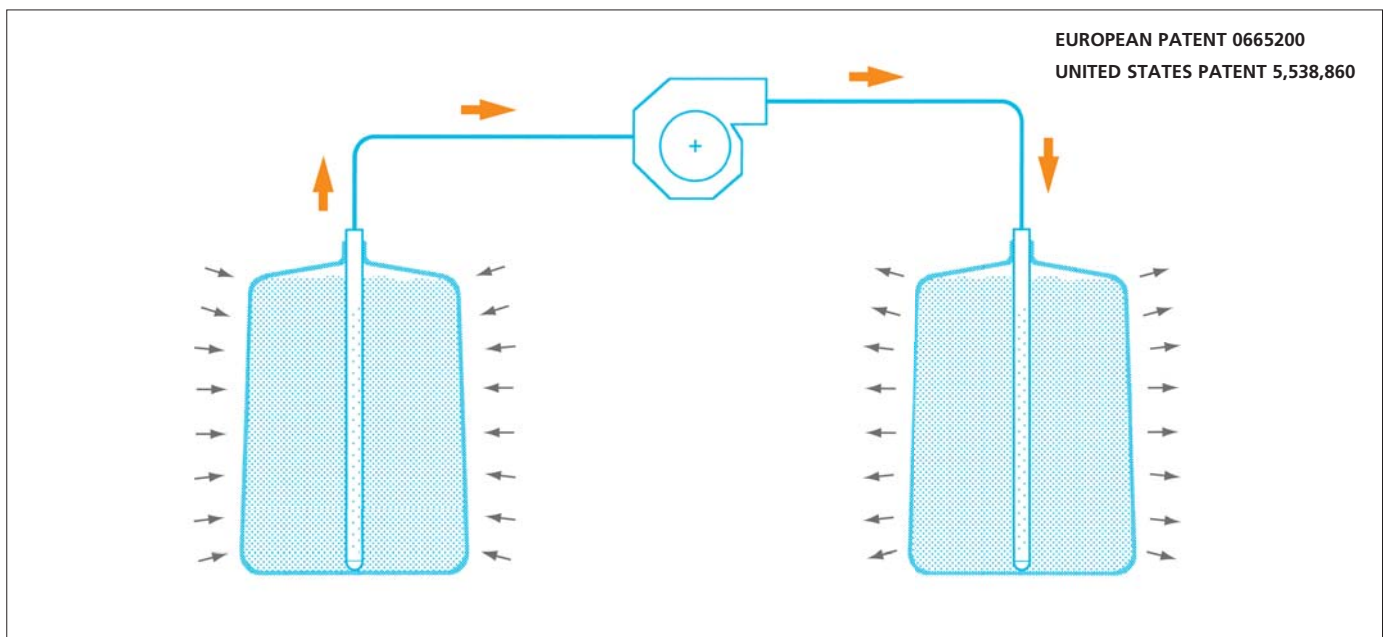
This modular system permits any size of plant to be built. The time needed for the installation of the plant is very short.

A further advantage may be obtained at the end of the biological treatment, as the composted material is already bagged and ready to be sent to compost users, such as firms preparing soil for plant nurseries and floriculture businesses.

Customized solutions can be designed for the treatment of any kind of organic material.



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**ATZWANGER SpA . Division Ecomaster Atzwanger**  
Via Palmanova, 31 . 33050 S. Maria La Longa (UD) Italy  
Tel. +39 0432 920175 . Fax +39 0432 923393  
[www.ecomaster.it](http://www.ecomaster.it) . [www.atzwanger.net](http://www.atzwanger.net)