

## TERRA – Microorganisms – T-Mo

### Odor reduction - animal house, manure, sewage treatment plants

„T-MO“ contains various organic acids due to the existence of microorganisms such as lactic acid bacteria that secrete organic acids, enzymes, antioxidants, and metallic chelates.

1. odor substances are of weak alkaline represented by ammonia and will be neutralized with organic acids in „T-MO“ solution.
2. the enzyme and antioxidants reduce odor in a synergistic way, a sort of buffer effect.
3. the metallic chelates react with odor substances instantly, change them into non-odor substances and reduce them quickly.

Organic matter produce odor when they are putrefied with putrefactive type of microorganisms.

When „T-MO“ is applied to a local environment and starts to dominate it with its fermentation type of microorganisms, they will stop the process of putrefaction and move towards a fermentation process.

Thus if „T-MO“ is applied to the treatment of waste water, the treatment takes place in this fermentation system with odor fairly well suppressed.

For the optimum effect, a large-scale, fine distribution (fogging) of T-Mo is required - examples of some suitable devices



## Poultry chicken farm fogging system mist sprayer system



### Data of mini mist machine:

Model	Capacity(L/min)	Voltage (V)	Power (W)	Pressure (kg)	Mist size(μm)	Cooling (°)	Weight (kg)	Dimension (cm)
AF-M2	1	220/50	220	60	5~20	4~10	13	47*26*30
AF-M3	3	220/50	800	60	5~20	4~10	18	53*28*32
AF-M4	7	220/50	1500	60	5~20	4~10	33	69*35*33
AF-M5	15	220/50	3000	60	5~20	4~10	53	69*35*33

### Where the misting pump is used?

#### Sterilizing, dedusting, mosquito & flies removing

1. Stockbreeding industry of chicken farm, Cattle Farm etc.;
2. Dump area to kill virus & bacteria and remove odor;
3. Open public place remove mosquito & flies;
4. Mining, explosion-proof remove the dust;
5. Public washroom remove odor;
6. Infectious disease & epidemic area kill virus & bacteria ;

High Pressure Water Mist Systems can be used in small residential backyards as well as large commercial venues.



The evaporative characteristics of water, and the micron size droplets create means environmental control of temperature and humidity is easily achievable.

By using 1000 PSI, atomizing the water droplets to a size as small as 5 microns in diameter is possible.

### We have the functions as below:

#### To lower the temperature

Residential Cooling, Outdoor Cooling, Commercial Place Cooling

#### To add the humidity

Industrial, Horticultural: Green house, Garden, Livestock Farming/ Poultry

#### To reduce the dust

Industry process, Bulk powder, Cement plant, Grain silo, Foundry dust, Fly ash control, Waste transfer, Recycling process

#### To approve the odour

Waste transfer, Chemical plant, Livestock farming/ Poultry, Landfill

## Does „T-MO“ affect the environment negatively?

Microorganisms in „T-MO“ are not genetically engineered, but are gathered mainly from those used in the food processing industry.

They are carefully chosen passing very strict criteria in terms of no harm to plants, animals, humans and especially the environment either directly or indirectly. „T-MO“ was introduced first in the field of agriculture about 20 years ago and has been extended to many other fields.

Though it has been used in an extensive range of environments throughout the world, no single case of the use of „T-MO“ reported any problem over the entire period of time.

We conclude that „T-MO“, a multi-culture of beneficial microorganisms, does no harm on the environment and that its safety on the environment is supported by no single case of any harmful effect.