THIS IS THE ORIGINAL DUST SOLUTIONS MADE IN ITALY SINCE 1997 by ECOLOGY
The problem is dust where we do consider dust whatever is lower than 10 (ten) microns in diameter.

Dust is not present in nature, but it is only generated by humans activities and specially industrials or vehicles traffics. Please do not get confused.
PM$_{2.5}$ particles <2.5 µm each

PM$_{10}$ particles <10 µm each

Human hair 50 µm

Finest beach sand 90 µm

!!! EACH ONE RED BALL IS PM10 !!!
THE AIR POLLUTION CONCENTRATION OF PARTICULATE HIGHER THAN 50MG NCM OF PM10 PER DAY KILLS PEOPLE AND ANIMALS.
FOG CANNON®
EFFECTIVE AIRBORN DUST SUPPRESSION SYSTEM

ECOLOGY S.r.l.
THE SOLUTION! FOG CANNON®
THE SOLUTION!

FOG CANNON®
THE SOLUTION!  FOG CANNON®
THE SOLUTION!

FOG CANNON®
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THE SOLUTION !

FOG CANNON®

7 YEARS WARRANTY®

NOT MADE IN CHINA

BSI
Specially designed to agglomerate the dust in wide ranges, fully auto and self cleaning.
No real maintenance is required as well just few spares.
Effective 97,6% everywhere
!!! 7 YEARS WARRANTY !!!

Patented in Italy, in Europe and worldwide.
An innovative approach utilizing modern technology to control dust with water mist not wetting the ground but agglomerating the PM10 on flight.

Creating a new standard to control dust and particles in the open air as well indoor.

Providing a new solution to a problem that until most recently was impossible to resolve with traditional snowcannons or irrigators, it is not an adaptation of existing machine FogCannon have been expressly designed for this heavy duty work.
HOW IT WORKS

A powerful prop pushes air through a specially conceived cone.
Special fog nozzles produce tiny drops of water spray eventually augmented with a binding agent.
HOW IT WORKS

Throwing the fog stream to long distance
HOW IT WORKS

- Normally, dust particles of 10 μm remains suspended in air for long periods of time …
The mixture is then introduced
The water drops have the same dimensions as the dust particles.
Humid dust particles fall more rapidly to the ground or in the Dust Tex Net ®
FOGCANNON®
DUST AND PARTICLE SUPPRESSION SYSTEMS
FOGCANNON®
DUST AND PARTICLE SUPPRESSION SYSTEMS
Angle of spray: 359°
FOGCANNON®
DUST AND PARTICLE SUPPRESSION SYSTEMS

and 1999/28/EC) norms comply

ISO 6396, 2008 COMPLY

< 80 dbA
## Characteristics and Benefits

### Characteristics
- Ceramic nozzles
- Special silenced engineering of the cone lower than 80 dbA
- Modular configurations of the nozzles
- Angle of Spray 359° or continuous revolving as optional.
- Angle of inclination from -15° to +45°
- Easy to install and operate

### Benefits
- Durable and quality materials – long lasting – and very active second hand market.
- Long distance reachable with proportional uniformed distributed precipitation of micro rain.
- Self cleaning and draining circuits. Water treatment included onboard.
- Adjustment of the trajectory to compensate for wind action.
OPTIONAL EQUIPMENT

- Continuous revolving swivel
- Additive agent piston mixing pump
- Biodegradable and non toxic binding agents
  - Binding Agents to Crust Stockpiles
  - Surfactants for Improved Dust Control
- Motor ATEX certified
- Computerized remote control system
- Units can be connected by PLC
- Remote control by digital radio, wi-fi or cable
- Video camera ccv onboard 24/7
**TECHNICAL NOTES**

- Optimal angle of inclination 35°-40°
  - Tested at the University of Milano along with engineers of Ecology Corp.

- Ideal dimensions of the water spray reachable at 15 bar with the water booster pump included in the FogCannon as well the water treatment system.
APPLICATIONS

- Storage stockpiles
- Mines
- Quarries
- Steel mills
- Demolition works
- Construction sites
- Fire Fighting
## Delivery Times

- **FOG CANNON® 30**: 1 Months
- **FOG CANNON® 50**: 1 Months
- **FOG CANNON® 80**: 1 Months
- **FOG CANNON® 110**: 1 Months
- **FOG CANNON® 150**: 2 Months
- **FOG CANNON® 250**: 2 Months
!!! NO IRRIGATORS !!!

- Drops that are too big go through the dust cloud
Therefore, the dimensions of the water drops are fundamentals.

90 Micron

- The dust particles join water drops of the same size much easier than others.
SYSTEM TECHNOLOGY

- The dimensions of the water drops should be around 90-115 microns to obtain maximum efficiency and considering evaporation along the throw.
- The special nozzles of the Fog Cannon generates the ideal drops size and because made in ABS and ceramic they are unclogging and long wear life, acid resistant.
- Researchers have found that the best operating pressure is at 15 bar
SYSTEM TECHNOLOGY

Water pressure too low

Average size of dust particles is: 90 micron

Perfect pressure

!!! No SnowCannons !!!
SYSTEM TECHNOLOGY

- Water drop size comparative chart

Average size of dust particle 90 micron at ground level
IRRIGATORS ARE FOR AGRICULTURE

- Irrigators do use 10 times more water and 1000 times bigger water drops = NO EFFECT against the airborne dust.
- Irrigators do generate little creeks of water on the sides of the operating area and wash the materials.
- Irrigators really over add water the materials and in many cases they generates penetration of the ground polluting the underground soil and waters.
**SNOWCANNONS ARE FOR SKI RESORTS**

- Snowcannons do use 2 times the needed water and bigger water drops = NO EFFECT against the airborne dust.
- Snowcannons are not provided of water treatment system for water filtering and bacteria or viruses infection prevention.
- Snowcannons do not drains the circuit at each cycle so bacteria can grow up into the steel and rubber pipes.
This is the original FogCannon since 1997

Prices is related to the quality and is not the only issue to evaluate. You got for what you pay.
CUSTOMER SERVICE

- Ecology Customer Service
- 24/7 non stop

MORE INFORMATION AT:
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- www.dusttexnet.com

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- info@ecology.it