

DUST SUPPRESSION

TecnoCooling misting systems provide with extremely effective solutions to airborne dust suppression and air filtration.

High pressure misting systems are the most appropriate solution for outdoor and indoor small and large areas, to suppress dust generated by materials handling or manufacturing processes in general.

TecnoCooling Misting systems create a high concentration of ultra thin water droplets with an average diameter of 10 microns (with the possibility to add surfactants in some cases), having the ability to capture and suppress PM10 and smaller particles.

Surfactants instantly blanket suspended dust particles, increasing their weight and driving them to the ground.

Misting system helps removing effectively 0,1-1000 micron breathable dust particles: dust agglomerated in thick mist has few way of escape!

Thanks to their modular structure, TecnoCooling systems allow a very easy installation, unlike some other dust control technologies that require upgrading the production sites and consequently resulting expensive in costs and poorly flexible on the whole.



Misting systems are installed in painting units, quarries, mines, stone crushers, gravity flow places to conveying belts, truck yard ramps, hoppers unloading, suppression of dust produced by steel mills and cement factories, ships loading and unloading points, ores, rocks and coal storages, recycling plants and inert processing. Units will be placed near materials gravity drop places, where the concentration of fugitive dust particles is larger in diffusion and in surface.



BENEFITS

- TecnoCooling misting system is customized and modular, as regards every particular situation, according to: the configuration of the emission point, the typology of the machinery to treat, the quantity and quality of dust produced. Easiness and small-sized nozzles and tubing allow an easy-to-handle mounting near machinery to treat.
- Mounting is easy and does not require neither special planner projects nor permits. While mounting a system, industrial plants do not require to be neither stopped nor modified.
- The working is completely automatic and does not need any special attention. Furthermore, in the event of production process stop, TecnoCooling misting system is interrupted with resulting saving.
- Due to their special design, nozzles can be fully cleaned.
- Maintenance is minimum and unit components are not subjects to particular wear.
- It is possible to treat yards and heap storages.
- Surfactant is biodegradable.
- The required quantity of water used in dust suppression is low and the residual humidity on materials at the end of the process is quite null.

