

# WetDust Dust Suppression System



## Why we need Dust Suppression?



WetDust System

Dust nuisance is one of the major air pollution problems found in construction areas. Poor air quality not only violates the EPD regulation but also causes unpleasant and harmful to the workers and engineers at the construction sites. According to the EPD regulations for construction activity, control measures should be done to prevent the emission of dust. Some of these are the spraying with water during materials handling, installation of roofed enclosure with a flexible curtain for vehicle discharging dusty materials and three-sides enclosure of stockpiles of sand and aggregate greater than 20m. For excavation works, the contractor should clean and water the site frequently to minimize the dust emission. These precautions would be adequate but suppression of air borne dust is still required.

## "WetDust"

The conventional method for dust suppression in construction sites makes use of water spray done by a water truck to dampen the affected areas or the stored materials. This would be a large water consumption and the efficiency would not be comprehensive.

The WetDust Dust Suppression System generates air borne water mist 17 microns for dust suppression. It can operate for continuous 8-hrs and also reduces the power and water consumption. The system is effective, versatile and can be setup easily at the job sites.

When working inside buildings, tunnels or road works, the fine water mist can also reduce the ambient temperature and give the cooling effect to the workers. It becomes the win-win solution for tropical areas.

## Features

1. Producing fine water mist (17 microns) for dust suppression
2. Far more effective than spraying water without making the material really "wet"
3. Mobile and c/w auto-timer for start-up and shut down
4. Can be installed in pick-up trucks for movement around large site area
5. Contain enough volume of water for continuous 8-hrs operation
6. Low power and low water consumption
7. The system is versatile and can be set-up in any location in job sites to suit the wind direction

"One World, One Water, One Future"



### "WetDust" - a complete system included:



Water mist generated

1. Electric fan blower with stainless steel nozzles
2. High pressure pump (1750 rpm) designed for use with recycled water
3. Steel caged plastic container (1000L capacity) c/w steel pallet for easy handling
4. Panel for automatic control

### Specification of WetDust

No. of Fan	2
No. of Nozzle	17 for each fan
Nozzle Flowrate	7.6L / nozzle / hour at 300 psi
Mist Diameter	17 microns at 300 psi
Fan Diameter	406 mm
Fan Rating	220V, 1ph, 2.2 kW
Air Flow	250m <sup>3</sup> /min
Pump Rating	220V, 1ph, 180W, Maximum pressure 1000 psi
Water Flow	260L/hour
Noise	78 dB
Tank Capacity	1000L

### Application

- Building/Demolition works
- Cement plant
- Earth work project
- Odor control for landfill and wastewater treatment plant
- Quarries & Concrete plant
- Road works



Application: road works



WetDust's spraying system

