



Magna Engineers

Humidification

High Pressure Dust Suppression Fog / Misting Cannon





Dust Suppression System:

We at Magna Engineers have designed a method and constructed a machine that ejects fine drops of water into the atmosphere to capture and absorb the dust and bring it down to ground. Low energy consumption, ensured by sophisticated design and construction, makes the “Hydromist” Dust Suppression Cannon an extremely convenient machine for use in all areas where dust is produced; it eliminates the costs of hiring personnel for washing yards, during demolition work, at tunnel demolition sites. Dust Suppression therefore ensures a better working environment, but also drastically reduces consumption and wear of equipment at work sites. The guns can be automated – remote controlled by computer to manage treatment areas without need for human intervention.

Applications:

Dust suppression and humidification of open dusty surfaces, mining, recesses and inert recycling systems, Cement factories and concrete production plants, Construction of road tunnels, Steel factories and Compost production plants, Solid urban waste landfill sites, Fodder factories and mineral conversion. General demolition work and bulk material handling, waste treatment facilities, stockpiles, discharging into ships, reclaiming from stockpiles, dumping, crushing and loading/unloading trucks. Cooling of large open spaces like stadiums, concerts, events and parks.

Model No: HJ DSC-60 is equipped with a high power turbine ventilator and thanks to its three concentric nozzle rings; it can spray a light rain with a throw of approximately 60 meter. Area coverage 10.700 m2 approx



Benefits

- lower labour costs
- better working conditions
- lower environmental pollution
- effective dust suppression on open spaces
- lower wearing of machinery and tools
- less or no puddles and trickles

Technical Features

- Max. Working pressure 7 BAR
- Min. working pressure 3 BAR (best = 7 BAR)
- Nozzle no.: 60 (1 rings by 60 nozzles each)
- Max. Area coverage 10.700 m2 approx.

Electrical Features

- Absorbed power: 11 kW
- Voltage: 400V 50Hz (3P+N+G plug)
- IP protection: IP55

Mechanical Features

- Rotation: 320
- Elevation: -20 +45
- Fan diameter: 660mm (26 in.)
- Fan speed: (RPM) 2800
- Air flow: 28.500 m3/h

Performance

Throw: 60 meters
Noise level < 93 dB(A)

Controls

ON/OFF switch
LEFT - RIGHT automatic rotation
Adjustable elevation
Adjustable/programmable working angle
Fan start
Water supply start (water pump/solenoid valves)
START - STOP timer
Flashing with alert sound

Optional

Low pressure pump (7 BAR electric pump - 3 kW)
Nozzle ring heater (quick defrost)
Night lamp
Remote control with battery charger (on/off and movement)



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