



## Oasis Irrigation Equipment Company Limited The "Rain Maker"

Oasis Irrigation Equipment Co Ltd, P-6, Scheme-VI, M(S), C.I.T, Kolkata-700054

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### Urge to serve the Industry in a better way

“Save the Environment” is the topic of now-a-days. Being a part of this industry, we must be concerned to protect the environment and it is also our prime responsibility to serve the Industry with something better product. It is from this urge, we started manufacturing Fog Cannon System which is very productive in terms of its' effectiveness & economical aspects, considering the Indian Industry

### Necessity

- To reduces risk of Occupational Respiratory Diseases / Physical Discomfort, thus brings efficiency in work-force
- To reduce equipment wear & tear, on which fine dust can cause a "grinding" effect and increase wear or abrasion rates, thus lowered productivity and added operating costs
- To increases visibility and reduces probability of accidents
- To increase workers' morale and productivity
- To prevent unpleasant odors

### Who can be benefitted

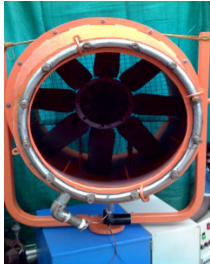
- |                             |                      |                      |
|-----------------------------|----------------------|----------------------|
| ➤ Coal Handling / Washaries | ➤ Cement Plant       | ➤ Ports & Shipping   |
| ➤ Thermal Power Plants      | ➤ Steel & Slag Plant | ➤ Re-cycling & Scrap |
| ➤ Mining & Quarrying        | ➤ Waste Transfer     | ➤ Wood Processing    |
| ➤ Demolition                | ➤ Construction       | ➤ Crushing Unit      |

### Application Areas

- |                                       |   |
|---------------------------------------|---|
| ➤ Conveyor / Transfer Points          | ➤ Rail-wagon loading/unloading                |
| ➤ Wagon Tippers                       | ➤ Ship Loading / Unloading                    |
| ➤ Reclaiming from Stockpiles, dumping | ➤ Ash silo discharge chute                    |
| ➤ Screens                             | ➤ Explosion Hazard areas                      |
| ➤ Hopper                              | ➤ Waste Treatment facilities for Odor control |

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### Features of "OASIS" Fog Cannon

Robustly built body

So designed, to take care of the whirl-wind, thus micro droplets can travel more

All the models are provided with a "Glass-reinforced Polymer Filter" of 120mesh to eradicate the probability of clogging of the nozzles

All models have automatic rotation of up to 330° and an adjustable elevation angle from 0° to +45° or -45°

Water consumption varies from 16 LPM. up to 56 LPM depending on the models

User friendly and Low capital, operation & maintenance cost as compared to other conventional System

Nozzles are made of non-ferrous material

Having facility of selecting nozzles matching with the sizes of dusts for effective control

Wide area coverage. Can be used as mobile / stationery units

### Other Features

- Water addition to this process is as low as 0.1% of the weight of the material being handled
- Highly efficient, dust suppression is up to 95% of airborne dust particle
- Effectively takes care of fugitive dust emission (reduced air pollution)
- Easy installation in the existing plants. In most cases, the system can be installed in operating plants
- No major plant modifications are required for installation of the system
- It can be used in open spaces or at a tight enclosure also.
- No lump formation on conveyors (saves conveyor from damages)
- Fire prevention (cooling coal intern preventing from auto-ignition on conveyors)
- Power saving (Dust Extraction systems can be eradicated)
- Saves costly equipment and machinery from deterioration from dust
- Lower labour costs
- These systems can be installed even at underground coal mines or other gassy applications



Technical Specification	OSFC/10	OSFC/20	OSFC/30	OSFC/40	OSFC/50
Throw (approx.)	1 – 10mt.	10 – 20mt.	20 – 30mt.	30 – 40mt.	40 – 50mt.
Coverage	300 mt. <sup>2</sup>	1250 mt. <sup>2</sup>	2800 mt. <sup>2</sup>	5000 mt. <sup>2</sup>	7800 mt. <sup>2</sup>
Water Consumption	16LPM	20LPM	24LPM	40LPM	56LPM
Droplet Size	30 – 150µm				
Electric Motor – Axial Flow Fan	3.0HP	5.0HP	7.5HP	10.0HP	20.0HP
Average Working Pressure	7 to 8 Bar				
Fan Motor Type	TEFC Cage, Foot mounted, Induction Motor, 1440 RPM, 415 V, 3 Phase, 50 Hz., AC Supply, Insulation – Class F				
Pump Motor	1.0HP	1.5 HP	3.0 HP	4.0 HP	5.5 HP
Fan Impeller & Hub	Cast Aluminium Alloy, LM-6, Direct Mounted on Motor Shaft, Dynamic Balancing as per ISO:1940, G-6.3				
Fan Type	Long Casing Foot Mounted Tube Axial				
Filtration of Water	Screen Filter of 125 µm, S.S. Screen				
Horizontal Swing	Adjustable between 0° - 330°				
Motorized Actuator Driven Vertical Swing	0° to +45° or 0° to -45°				
Electrical connection	3 Ph 16 A	3 Ph 16 A	3 Ph 32 A	3 Ph 32 A	3 Ph 32 A
Pressure Water Connection	DN25	DN25	DN25	DN32	DN40
Mounting	Fixed on MS Base frame, fitted with 3(three) pneumatic wheels of suitable size and toe-bar both for manual as well as vehicle drive for easy movement at site. The system will also have stabilizer manual 3 point jacks for anchoring the unit at site while in operation.				
IP Protection	IP – 55				
<b>Controls</b> <ul style="list-style-type: none"> <li>✓ Start / Stop Switch</li> <li>✓ Oscillation</li> <li>✓ Tilting</li> <li>✓ Start of Axial Flow Fan</li> <li>✓ Start of Water Supply (water pump)</li> </ul>	<b>Electrical:</b> <ul style="list-style-type: none"> <li>➤ Earth Leakage Protection</li> <li>➤ Phase Inverter along with Indicator</li> <li>➤ Phase Change-over along with Protector</li> <li>➤ Circuit Breaker Protection for the Drives of Fan, Water Pump, Oscillation and Tilting</li> <li>➤ Dry Run Protector to trip the system in absence of water</li> <li>➤ With Electrical Cable 20 mt. long</li> </ul>				

**Optional:**

- Flow Meter
- Hour Meter for reading actual hours of running

**Trolley:**

- 3nos. Pneumatic Tyre Mounted Trolley
- Provided with a two types of toe-bar (for manual driven as well as for Vehicle driven) for easy movement of site.
- Stabilizer, manual 3 points jacks for anchoring the unit at site while in operation
- Hooks for lifting the unit

