دستگاهمهافکن

Mist Cannon

SpadFlow Fog Cannon

خنکسازی

Evaporator

🖊 افزایش تبخیر سطحی

Dust Suppression

🖊 غبار نشان



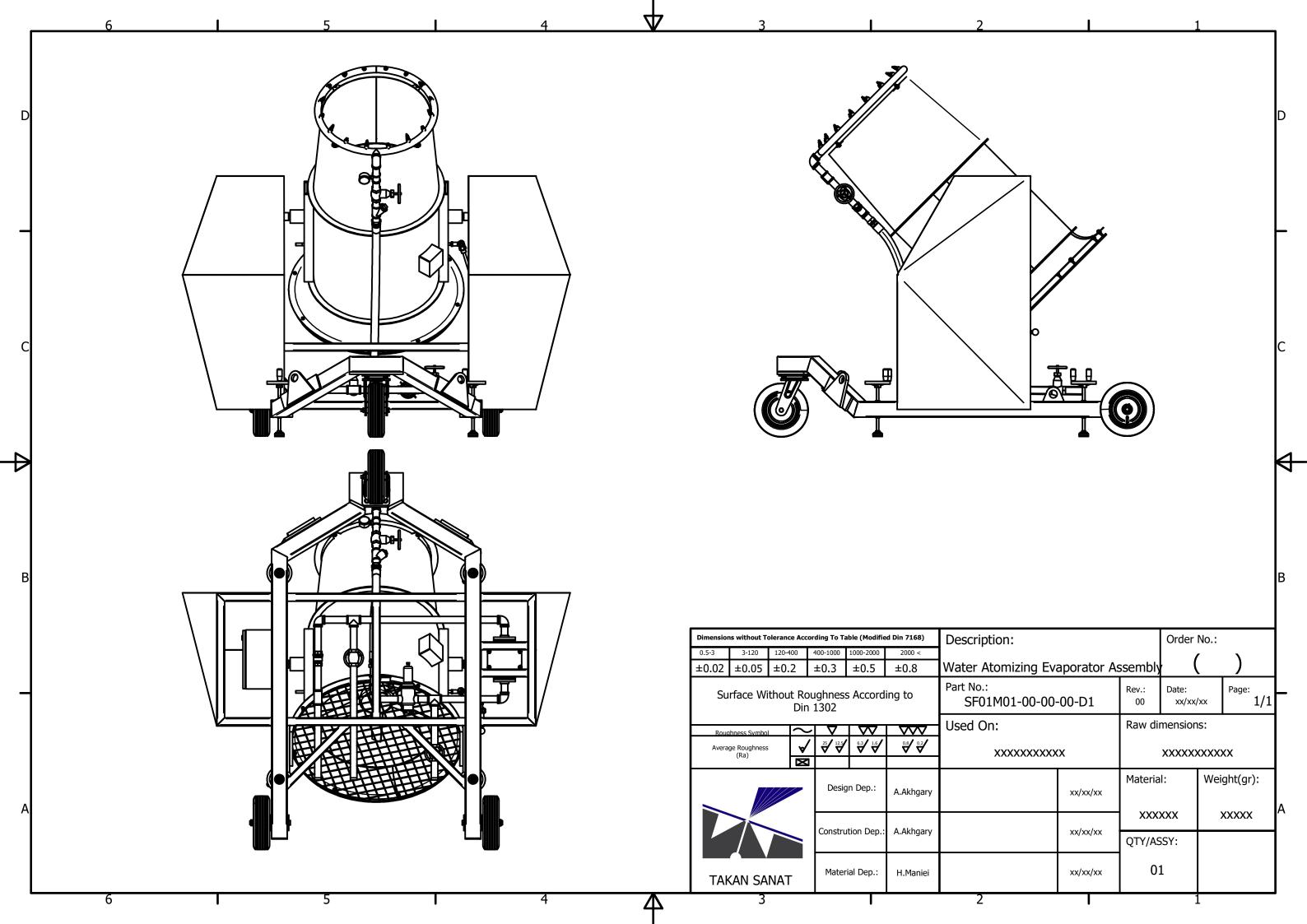




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SPADFLOW Evaporator Cannon



OVERVIEW

SPADFLOW evaporator cannon is designed to efficiently vaporize water into the atmosphere using high-volume air input, ensuring rapid evaporation at high velocity. The system continuously replenishes the evaporation field with low-humidity ambient air, maximizing effectiveness. Utilizing large-orifice spiral vaporizing technology, SPADFLOW evaporators offer low-maintenance, non-fouling operation. With an exceptionally high air-to-water ratio, they create ideal conditions for optimal "flash evaporation," performing effectively even in high-humidity environments. The current model is cost-effective, lightweight, and compact. Equipped with off-road wheels, it is easy to transport and can be set up within hours. This system not only provides a safer and more comfortable environment but also reduces labor costs, making it an efficient and reliable solution.

Application

Waste Water

ETP, RO Reject

Tailing Dams, Production Water, Rainstrom water

Technical Specification

| Gneral Specs | |
|------------------------------|---|
| Jet Fan | 30 inch Diameter Aluminum Fan with 10 Blades – Axial Type |
| Fan Airflow | $25000 \text{ m}^3/\text{hr} - 30000 \text{ m}^3/\text{hr}$ |
| Fan Power | 15 kW Soft Start, Rotating at 2950 RPM |
| Pump Power | 2 kW Vertical Multistage Pump |
| Water Consumption | 50 – 120 L/min |
| Nozzle Quantity | 6 pcs. Stainless Steel Full Cone Nozzles Arranged in 1x Cluster |
| Effective Throw Range | 30m – 40m (without wind) |
| Effective Spray Coverage | $250 \text{ m}^2 - 300 \text{ m}^2$ (without wind) |
| Droplet Size range | 50 μm – 200 μm (mean 70) |
| Pump and Water System | |
| Piping Material incl. Pump | Stainless Steel 316 |
| Water Supply Connection | 1 1/4" Flange Conn. PN16 |
| Working Pressure | 5-15 bar |
| Filteration | Removable, stainless steel, 180 micron filter |
| System Drainage | Manual Drain Valve |
| Pressure Monitoring | Pressure Gauge Set to Detect Water Supply, Pump and Filter Pressures |
| Chassis | |
| Vertical Tilt Angle | 0 - 45 |
| Osiliation | Optional |
| Gross Weight | 700 kg incl. wheelset |
| Dimension (L×W×H) | $2.5 \text{m} \times 2.5 \text{m} \times 2.5 \text{m}$ incl. wheelset |
| Mounting | Strong Chassis with 3 off-road Wheels with Height Adjustable Stabilizers |
| Machin Material | Carbon Steel with Electrostatic Color spray |
| Electrical Controls | |
| Power Supplay | 3×380V 50Hz |
| Power Connection | Inlet Plug Three Phase 32 A – 5 pin |
| Start-Up Current | 64 A |
| Electrical Controls | Lockable, IP66 Control Panel with Pump and Fan on/off Switch, Emergency stop button |
| Operating temp | +5°C to +50° |
| Warranty | 6 Month Warranty on All Parts and Workmanship |

SPADFLOW Dust Cannon



Overview

SPADFLOW dust cannons produce a fine mist of water droplets, propelled forward by a high-flow jet fan. Depending on local wind conditions, the water can reach up to 40 meters. Research indicates that when water droplets are approximately the same size as dust particles, the likelihood of collision is significantly increased. Conversely, if the water droplets are too large, they create an airstream that pushes dust particles away, reducing the effectiveness of dust suppression.

Application

Demolition
Bulk Materials Handling
Crushing and Screening
Stockpiles
Mine Blast Dust
Conveyor Discharge Chutes

Technical Specification

| Charal Space | |
|----------------------------|---|
| Gneral Specs | 27: 1 D: 4 A1 : F : : 1 10 D1 1 A : 1 T |
| Jet Fan | 27 inch Diameter Aluminum Fan with 10 Blades – Axial Type |
| Fan Airflow | 20000 m ³ /hr – 25000 m ³ /hr |
| Fan Power | 7.5 kW Soft Start, Rotating at 2950 RPM |
| Pump Power | 2 kW Vertical Multistage Pump |
| Water Consumption | 5 – 20 L/min |
| Nozzle Quantity | 10 pcs. Stainless Steel Full Cone Nozzles Arranged in 1x Cluster |
| Effective Throw Range | More than 20 m (without wind) |
| Effective Spray Coverage | $150 \text{ m}^2 - 200 \text{ m}^2 \text{ (without wind)}$ |
| Droplet Size range | 50 μm – 150 μm (mean 60) |
| Pump and Water System | |
| Piping Material incl. Pump | Stainless Steel 316 |
| Water Supply Connection | 3/4" Flange Conn. PN16 |
| Working Pressure | 7-15 bar |
| Filteration | Removable, stainless steel, 400 micron filter |
| System Drainage | Manual Drain Valve |
| Pressure Monitoring | Pressure Gauge Set to Detect Water Supply, Pump and Filter Pressures |
| Chassis | |
| Vertical Tilt Angle | 0 - 45 |
| Osiliation | Optional |
| Gross Weight | 500 kg incl. wheelset |
| Dimension (L×W×H) | $2 \text{ m} \times 2 \text{m} \times 2 \text{m}$ incl. wheelset |
| Mounting | Strong Chassis with 3 off-road Wheels with Height Adjustable Stabilizers |
| Machin Material | Carbon Steel with Electrostatic Color spray |
| Electrical Controls | |
| Power Supplay | 3×380V 50Hz |
| Power Connection | Inlet Plug Three Phase 15 A – 5 pin |
| Start-Up Current | 42 A |
| Electrical Controls | Lockable, IP66 Control Panel with Pump and Fan on/off Switch, Emergency stop button |
| Operating temp | +5°C to +50° |
| Warranty | 6 Month Warranty on All Parts and Workmanship |



شبیه سازی برد پاشش SPADFLOW Fog Cannon با نرم افزار SPADFLOW Fog Cannon

در این تصویر از طریق شبیه سازی سیالاتی توانایی جت فن مهافکن اسپادفلو در پرتاب هوا مورد ارزیابی قرار گرفته است. این تجهیز قابلیت پرتاب هوا تا بیش از ۴۰ متر را دارا میباشد.



