

## **Client logo**

## Data sheet Dust suppression unit

Project name
Project no.
Tag no.
Tag description

Document no. Revision no. P&ID no. Status

	Originator	Date	Checked by	Date
Process				
Mechanical				
Electrical				
	Approved by	Date	Professional regi	stration no.
Client (if applicable)				
Lead engineer				
General information				
Corrosion protection	Reference drawing no.			
Engineering engelification	tions Comins			

Corrosion protection	Reference drawing no.	
Engineering specifications	Service	
Installation		
Remarks		

## Site

Altitude(AMSL)	m	Location		
Ambient temperature maximum	°C	Rainfall		mm/y
Ambient temperature minimum	°C	Wind velocity		km/h
Barometric pressure	kPa	Humidity		%
Underground atmospheric classification		Class	Division	

#### **Process**

Feed stream			
Solids concentration	%m/m	Solids type	
Moisture content	% m/m	Bulk density	kg/m <sup>3</sup>
Solids flow rate (dry) normal	kg/h	Particle density	kg/m <sup>3</sup>
Solids flow rate (dry) minimum	kg/h	Angle of repose	degree
Gas data			
Gas type		Inlet pressure	kPa(g)
Molecular mass	kg/mol	Inlet temperature	°C
Moisture content	% m/m	Pressure drop allowable	kPa(g)
Gas viscosity	mPa.s	Relative humidity	%
Gas density @ normal temperature &	pressure	kg/m <sup>3</sup>	
Filter design data			
Filter type		Sound intensity	dB
Filtration velocity	m/min	Cleaning method	
Dust load	t/h	Emission level	mg/m <sup>3</sup>
Air flow rate @ normal temperature &	pressure	m³/h	_



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Material particle size distribu	ution				
Component	Size	Cumulative	Cumulative % passing		
Size 1	mr	n	%		
Size 2	mr	n	%		
Size 3	mr	n	%		
Size 4	mr	n	%		
Size 5	mr	n	%		
Size 6	mr	n	%		
Size 7	mr	n	%		
Size 8	mr	n	%		
Size 9	mr	n	%		
Size 10	mr	n	%		
Size 11	mr	n	%		
Size 12	mr	n	%		
Material characteristics		·			
Abrasive	yes/no	Friable	yes/no		
Adhesive	yes/no	Granular	yes/no		
Combustible	yes/no	Hygroscopic	yes/no		
Corrosive	yes/no	Pellitised	yes/no		
Dusty	yes/no	Powdered	yes/no		
Explosive	yes/no	Sticky	yes/no		
Fibrous	yes/no	Toxic	yes/no		
Flowability g/free flow	wing/average f				
Operating Conditions					
Operating days per year	da	y Operating hours per day	hr		
Availability	%	Operating hours per year	hr		
Mechanical					
Scope of supply					
Access ladders	yes/no	Explosion panels	yes/no		
Access platform	yes/no	Filter housing	yes/no		
Ducting system complete	yes/no	Housing supports	yes/no		
Dust hopper	yes/no	Insulation	yes/no		
Dust scrubber	yes/no	Pressure differential indicate	tor yes/no		
Electrostatic precipitator	yes/no	Refractories	yes/no		
Exhaust fan & drive	yes/no	Rotary plate feeder	yes/no		
Exhaust stack	yes/no	Screw conveyor	yes/no		
Information to be supplied b	y vendor				
Cyclone dust collector					
Туре		Model number			
Diameter	mr		%		
Hopper volume	m <sup>3</sup>	Total mass	kg		
Dust disposal method		Maximum pressure drop	kPa(g		



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Rating

Full load current

Class of rating (IEC 60034-1 class 4 2)

Enclosure classification IP code

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Dust bags					
Quantity			Bag width		mm
Material			Bag length		mm
Allowable pressure drop		kPa(g)	Operating temperature	Э	°C
Design life		year	Area per bag		$m^2$
Auxiliaries - refer to individ	ual datasheet	:			
Screw conveyor tag no.					
Electrostatic precipitator tag r	10.				
Exhaust stack tag no.					
Exhaust fan tag no.					
Dust scrubber tag no.					
Rotary plate feeder tag no.					
Nozzle data					
	Size		Rating	Facing	
Inlet	mm				
Outlet	mm				
Materials of construction					
		N	/laterial	Thickne	SS
Filter unit					mm
Flanges					mm
Gaskets material					mm
Supports material					mm
Electrical					
System information					
Supply voltage		V	Type of system earthing	ng	
Voltage variations		V	Area classification (SA	ABS 0108)	
Maximum voltage unbalance		%	Hazardous gas/dust		
Total voltage harmonic conte	nt	%	Cable size		$mm^2$
Supply frequency		Hz	Cable type		
Temperature classification of	gas/dust				
Data to be supplied by vend	dor				
Manufacturer			Equivalent circuit		
Frame size			Winding connection		
Year of manufacture			Insulation class		
Serial number			Insulation type		

Method of cooling (IC Code)

Type of explosion protection

Lubricant type/grade

Method of mounting (IM Code)

kW

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Data to be supplied by vendor				
Power factor at 100% load		Efficiency at 100% load	%	
Power factor at 75% load		Efficiency at 75% load	%	
Power factor at 50% load		Efficiency at 50% load	%	
Temperature rise	°C	Break away torque	Nm	
Locked rotor current	Α	Pull out torque	Nm	
Locked rotor power factor		Pull up torque	Nm	
Locked rotor withstand time cold	S	Full load torque	Nm	
Locked rotor withstand time warm	S	Moment of inertia of load (MIL)	kg/m²	
Allowable no. of starts per hour cold		Moment of inertia of motor rotor	kg/m²	
Allowable no. of starts per hour warm		MIL referred to motor shaft	kg/m²	
Maximum thrust continuous (down)		Temperature rating		
Maximum thrust momentary (down)		Sound intensity	db	
Type of bearing non-drive end		Type of bearing drive end		
Direction of rotation viewed from non-dri	ve end			
Terminal box position viewed from non-				
Speed vs. torque curve at full volts requi				
Speed vs. torque curve at 85% full volts	required			
Speed vs. current curve at full volts required				
Speed vs. current curve at 85% full volts	•			
Speed vs. power curve at full volts requi				
Speed vs. power curve at 85% full volts	required			

#### Inspection & testing

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Mechanical	Electrical
Standard shop running test	Shop inspection required
Dismantle & inspect after test	Routine test thermal detectors
Non-witnessed performance certificate	Routine test witnessed
Witnessed performance	Type test thermal detectors

#### Shipping & installation

Information to be supplied by vendor						
Heaviest lift	kg	Overall height	mm			
Heaviest maintenance lift	kg	Overall length	mm			
Weight driver	kg	Overall width	mm			
Maximum foundation loading	kg	Total shipping weight	kg			
Net weight	kg	Total shipping volume	$m^3$			
Operating weight	kg	· · · <del>·</del>				