FLAMEFAST EXTRACTION SOLUTIONS

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Warrington, WA3 6QU
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F 01925 852785
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Distinction Doors
Unit 36 Wentworth Industrial Park
Wentworth Way
Tankersley
Barnsley
S75 3DH

For the attention of Dave Walker

PROPOSED ADDITIONAL EXTRACTION SYSTEM

Extraction Requirements

The Below table shows the extraction requirements for the installation based on machine manufacturers recommendations and information or industry standards.

Dust Extraction Requirements				
M/c Ref	**Description**	**Existing Spigot**	**Velcoty**	**Volume m³/hr**
1	SCM Accord 30FX CNC	315mm	20-28m/s	6900
2	SCM Accord 30FX CNC	315mm	20-28m/s	6900
3	SCM Accord 30FX CNC	315mm	20-28m/s	6900
4	Stefani Edgebander	315mm	20-25m/s	4900
5	Stefani Edgebander	315mm	20-25m/s	4900
6	Gabbiani Beam Saw	315mm	20-25m/s	5100
		TOTAL	**Volume m³/hr**	**35600**

FXS
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Technical Specification

Filter Unit - One off



Filter type: Schuko EcoVar Validus 2330
Filter cleaning: Compressed Air Reverse Jet
Filter media: Antistatic Polyester needle felt
Filter media access: Side access door platform
Safety: Integral Sprinkler system
Filter air volume (m^3/hr): 32500
Filter area (m^2): 407
Filter velocity: 80m^3/m^2/hr
Waste removal: Rotary Valve
Waste Discharge Conveyor: 0.37kW Horizontal
Waste Discharge Conveyor: 0.55kW Elevated
Waste Discharge Conveyor: 0.37kW Horizontal
Waste Collection: Twin Big Bag System
Power Supply: 415V-3ph-50Hz

Integral Fan Units – Three-off



Fan type: Integral S450 G/S7R
Drive Type: Direct
Total Fan air volume (m^3/hr): 10833
Pressure (Pa): 4110
Speed (rpm): 2950
Motor size (kW): 22kW
Power Supply: 415V-3ph-50Hz

Control Panel - One off



Panel type: FXS
Type: Floor Mounter
Size: 2200mm wide, 2000mm tall, 500mm deep
Power Supply: 415-3-50
Main Fan Starter: Inverter (ABB)
2 x Fan Starter: Star Delta
Other starters: DOL
Safety Features: Usual + E-Stops
Isolator : Yes
Display PLC & HMI
Addition Features: Ecogate Integration
Additional Features: Red Amber Green Traffic Light

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Warranty: 3 years if we carry out site wiring

Explosion Non-Return Valve – Two off



The explosion non-return valves are designed to prevent the effect of pressure wave and flames caused by an explosion from traveling upstream in the ductwork in which it is mounted. It is tested and certified to a maximum reduced explosion pressure for the downstream protected vessel (typically ATEX zone 20, internal) and acts as an isolating valve during an explosion.

We will provide an explosion non-return valve a minimum of 2m from the filter inlet as recommended by the ATEX regulations. Unfortunately, not all companies interpret the ATEX regulations correctly and some companies do not offer these valves to prevent explosion propagation back into the factory, relying on their filter back pressure non-return valve.

Extraction Ductwork - One set

Manufactured from galvanised mild steel sheet in a welded construction with fast clip clipped joints, designed to ensure correct extraction and waste conveying velocities.

Support Brackets - One set

General support brackets consist of a two-piece split galvanised strap fixed to the building fabric with galvanised thin wall tube and lindaptors. All other brackets are mild steel with blue powder coat or galvanised finish.

Validity

This quotation is open for acceptance for a period of 30 days from the date of this quotation. After this date the quotation will be the subject to review.

Warranty period

The warranty period is indicated in our conditions of contract, 'design, supply and installation', condition 9 and will run from the date of final commissioning.

Access & lifting equipment

FXS will supply all access and lifting equipment provided conforms to all Health & Safety standards and that it is suitable for the intended application. The Client must ensure that the working area is clear of all obstructions for the duration of the contract to ensure that all work can be carried out safely.

Commissioning

FXS will fully commission the equipment and a report provided. The client is responsible for ensuring that no attempt is made to start the equipment until approval is given by the FXS Service Department. Failure to comply with this request could result in injury to person(s) or damage to plant and equipment. In the event of such injury or damage occurring then it will be entirely the responsibility of the client.

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Construction (Design and Management) Regulations 2015

These regulations may apply to this project. We would like to draw your attention to your duties as the client. As it is likely that more than one contractor will be working on this project you have a legal duty to appoint a Principal Designer and a Principal Contractor in writing. If you do not do this then you take on these roles and associated legal duties yourself. More information relating to client duties can be found at http://www.hse.gov.uk/pubns/indg411.pdf

Responsibilities

Description	FXS	Client
Supply delivery, mechanical & electrical Installation of the afore mentioned equipment	*	
Commissioning & detailed report on completion of installation	*	
Lifting Equipment	*	
Access Equipment	*	
Electrical isolated supply		*
Site wiring of all EcoGate system	*	
Foundations, builders & joiners work		*
Cutting apertures & Weather proofing		*
Compressed Air Supply		*