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INSTALLATION & OPERATING INSTRUCTIONS

TSFL EXTRACTOR

The TSFL Dust Extractor has been designed specifically for use with large to medium sized Bandsaws requiring both Top and Bottom extraction in line with HSG258 Guidelines. However it may be used for other similar applications.

The TSFL has exceptionally low noise characteristics for use within the classroom and is designed for use with fine dusts. Warm air is returned to the classroom being sympathetic to environmental issues.

The Top Extraction Kit is available from Technology Supplies for installation by our engineers.

Please specify inlet port diameters and saw model number at time of order placement.

General Information:

Machine Width	550 mm (620mm inc.hose inlets)
Machine Depth	730mm (750mm inc. shaker handle)
Machine Height	865mm
Filter area	1.4m ²
Capacity of Dust Tray	18 litres
Inlet sizes (left and/or right side)	1x100mm & 1x80mm diameter ports OR 2x80mm diameter ports OR 1x120mm port on one side only.
Gross weight	74 kg
Motor power rating	0.75Kw (1hp) 230/1/50 or 400/3/50
Full Load Amps	1 Phase = 5.1A, 3 Phase = 1.8A
Filter Condition Monitoring	Differential Pressure Gauge Across Filter
MCB	16A Type C
Starter	Included
ATEX Explosion Relief Panel	Optional: A Certified Explosion Vent Relief Panel is available to order if required to meet local authority or HSE requirements.

Safety:

Ensure the power supply is isolated before carrying out any electrical or maintenance work. Electrical work should only ever be undertaken by a competent person in accordance with current regulations.

Installation

1. Locate the Extractor next to the Bandsaw or other machine that requires extraction.
2. Connect the 100mm diameter hose from the saw port to the extractor.
3. Connect the 80mm diameter hose from the saw Top Extraction Kit to the extractor.
4. The extraction unit must be connected to the power supply via the thermal overload, no volt release coil contactor supplied. (as per BS7671 2008 IEE wiring regulations, Seventeenth Edition) Note: The supply should be tested prior to final connection and electrical works should only be undertaken by a competent person.
5. Fan rotation should be checked according to the direction indicator arrow fitted inside the top lid of the extractor. Note: The fan will only perform to 40% of its capacity if it runs in reverse.

Regular Daily Maintenance

1. Filter should be cleaned daily by vigorously rotating the cleaning handle on the front of the extractor for at least 20 seconds. This operation must be carried out with the fan stationary. This will allow air borne dust within the extractor to settle and ensure adequate filter cleaning. Run down time of the fan is approximately 45 seconds.
2. Allow a minimum of 30 seconds after cleaning for the dust to settle within the extractor before emptying the dust tray. Do not allow the extractor to over-fill with dust as this will in time reduce the filter life.
3. The pressure gauge on the front of the extractor indicates the pressure drop across the machines filter. When the extractor is running the pressure registered on the gauge should be between 0 – 4 inch H₂O. Higher values indicate that the filter is in need of cleaning. Persistently high values may indicate a replacement filter is required.
4. Periodically check the inlets of the extractor for splinters that may impede air flow and restrict system performance. Ensure the saw is isolated from its power supply before carrying out this operation.
5. Refer to “Extractor Weekly Inspection and Maintenance Log” supplied with the extractor for further checks to hoses, ducting and electrics.
6. All Dust Extractors require a COSHH Test by a competent engineer at least every 14 months. Most establishments carry out COSHH Inspections on an annual basis i.e. every 12 months.

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