



Technology Supplies Ltd  
Phoenix House  
Stafford Drive  
Shrewsbury  
Shropshire SY1 3FE  
Tel. 0845 5670000 Fax. 01743 453272  
Email projects@technologysupplies.co.uk

## **INSTALLATION & OPERATING INSTRUCTIONS**

### **TSDS EXTRACTOR c/w SANDER**

The TSDS Dust Extractor has been designed specifically for use with small machines requiring dust extraction in line with HSG258 Guidelines. The top of the extractor is stiffened and can be used to directly mount the sander to the extractor negating the need for a separate machine stand. The TSDS is ideally suited for applications where fine dusts are created such as from small bench grinders, polishers and sanding machines.

The TSDS has exceptionally low noise characteristics for use within the classroom . Warm air is returned to the classroom being sympathetic to environmental issues.

#### **General Information:**

Machine Width	610 mm
Machine Depth	800mm (Inc. Knee Stop Button)
Machine Height	1320mm (Floor to top of Sander)
Filter area	1.0m <sup>2</sup>
Capacity of Dust Tray	12 litres
Inlet size	1x 63mm diameter port (other sizes available)
Gross weight	90 kg
Motor power rating	0.55Kw (0.75 hp) 230/1/50 or 400/3/50
Full Load Amps	1 Phase = 3.0A, 3 Phase = 1.3A
Filter Condition Monitoring	Differential Pressure Gauge Across Filter
MCB	10A Type C
Starter	Included. (Auto Start with Disc Sander start)
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 complete with the Disc Sander in the location required.
2. The extractor is pre-hosed to the sander and only requires checking the security of the connections.
3. The extractor is factory fitted with an auto start function which starts the extractor automatically once the sander is started. No other links are required.
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. When emptying the dust collection tray place it inside a polythene bag to reduce any dust cloud as it is emptied. A face mask and goggles must be worn before carrying out this operation.
4. 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 H<sub>2</sub>O. (0- 1000 pascals) Higher values indicate that the filter is in need of cleaning. Persistently high values may indicate a replacement filter is required.
5. Periodically check the inlet of the extractor for splinters that may impede air flow and restrict system performance. Ensure the extractor is isolated from its power supply before carrying out this operation.
6. Refer to “Extractor Weekly Inspection and Maintenance Log” supplied with the extractor for further checks to hoses, ducting and electrics.
7. 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.

# TSDS EXTRACTOR c/w SANDER

