ducting express

DE/MS50 Instructions

01455 616 444

Ducting Express Services Ltd
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DE/MS50 Instructions

APPLICATION

The MS50 Dust Extractor has been designed for use with industrial grade workshop machines producing medium to fine dust, such as linishers, grinders and polishers.

The MS50 is compact, quiet and well made with a robust steel construction, making it perfect for applications across all industry sectors. The robust pleated filter is tough and makes it ideal for handling a wide range of applications. Fire retardant/heat resistant filters are also available for especially tough tasks.

Also available with options such as ATEX Explosion Relief and Heppa Filtration.

FEATURES

1. 4.65 m² (50ft ²) filter area
2. Easy to empty waste collection tray
3. Compact and versatile with low noise characteristics
4. Suitable for a variety of dust types
5. Solid industrial construction

SPECIFICATIONS

Machine Width	766 mm
Machine Depth	887 mm
Machine Height	1180 mm
Filter Area	4.65 m²
Dust Collection Capacity	12 litre dust tray
Inlet sizes (standard)	1 x 120 mm or 2 x 100 diameter ports
Motor Power Rating	1.5 kW 230/1/50 or 400/3/50
Full Load Amps	1 Phase = 9.8A, 3 Phase = 3.5A
Filter Condition Monitoring	Differential pressure gauge across filters included

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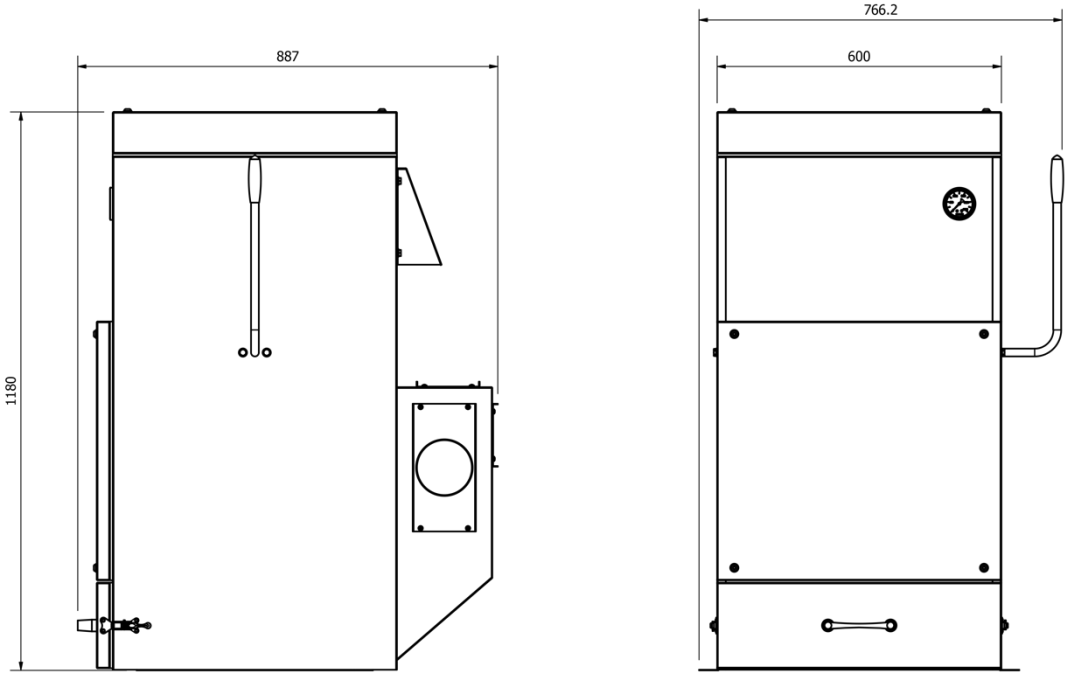
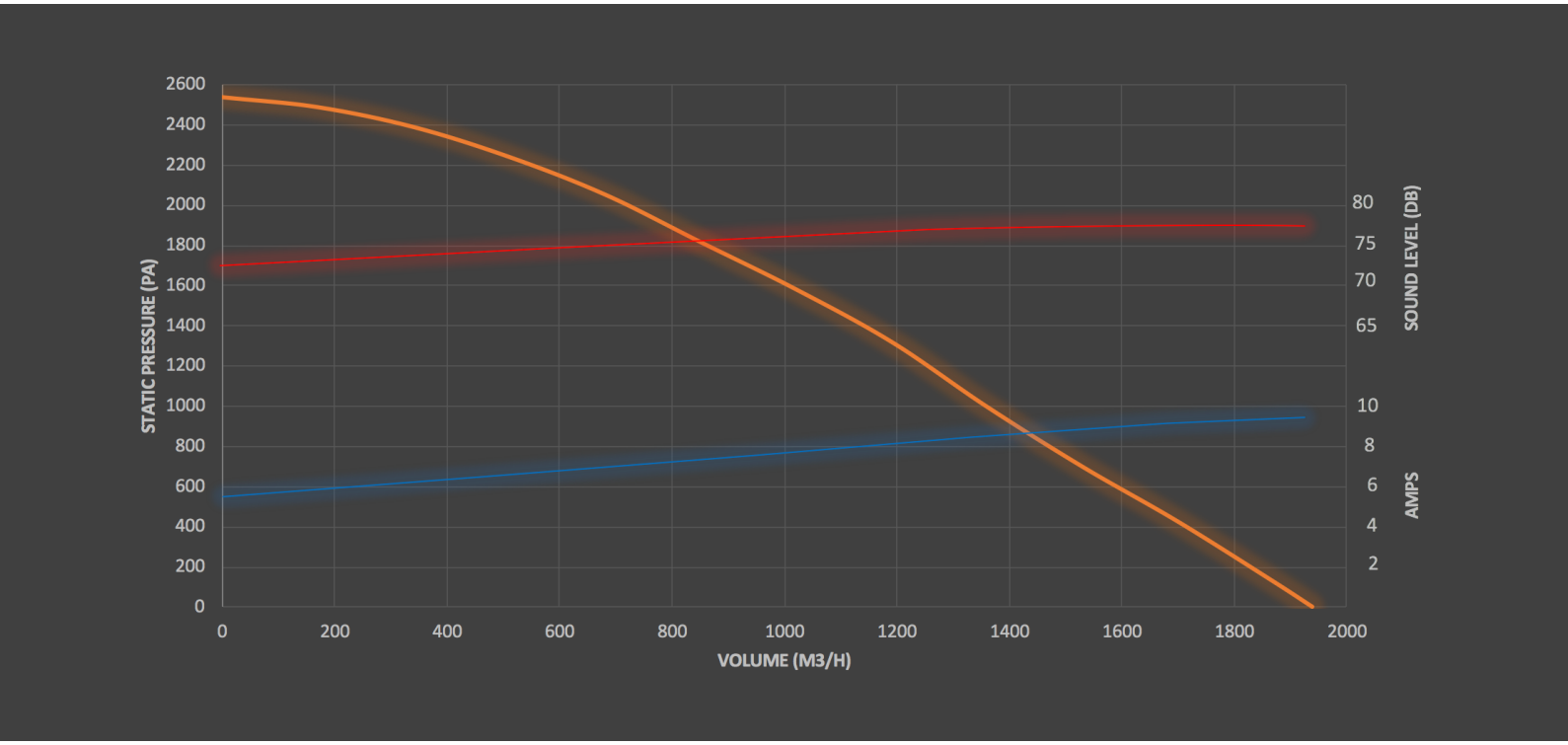
DIMENSIONS



PERFORMANCE GRAPH



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Principle of Operation

Dust laden air is drawn from its source through an extract hood connected to the inlet of the unit by either flexible or rigid ducting. On entering the unit, the dust laden air is given a sudden change of direction which together with the reduction of velocity causes the heavier entrained particles to settle in the dust tray.

The finer particles of dust are deposited onto the inside of the Terylene Needlefelt filter before the clean filtered air continues through the fan, to be discharged back in to the working environment through a noise attenuation chamber.

Installation

1. The extraction unit must be connected to the power supply via an appropriate control panel / starter (as per BS7671 2008 IEE wiring regulations, Seventeenth Edition). The supply should be tested prior to final connection and electrical works should only be undertaken by a competent person.

2. Fan rotation should be checked according to the direction indicator arrow fitted inside the top lid of the extractor. **The fan will only perform at around 40% of its capacity if it runs in reverse.**

Operation & Maintenance

Maintenance of the extractor is limited to periodically checking the amount of waste material within the Collection Bin and manual cleaning of the extractor filters (manual filter cleaning is not required for auto-shake extractors).

The filters should be cleaned/agitated on a daily basis in order to maintain system performance and prolong filter life. The filters should be cleaned/ agitated only after the fan has stopped to prevent dust from re-entering the filter chambers once they have been cleaned.

A period of around one to two minutes should be observed after cleaning/agitating the filters before removing the collection tray; this will ensure that any airborne dust will have settled. The power should be isolated at the machine Isolator before the waste tray is removed. The waste tray is removed by unclipping the tray retaining clips.

Caution

If the collection tray is left to over fill this will block the filters and prevent the machine from working correctly. To avoid this ensure the collection tray is regularly checked.

Safety

Ensure the Extractor is Isolated before Carrying out any Work

Regular Daily Maintenance

1. The filter will need to be shaken manually after each period of use using the shaker leaver on the side of the extractor. The filter shake time should be around 30 second to a minute to give a good clean. This time will depend on the extracted material. Ensure the handle is shaken vigorously.

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. PPE should be worn whilst 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 – 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 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.

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.

8. Periodically check around the extractor for leaks around the Tray and access door seals. Also check the body of the machine for fan vibration whilst fan is running.

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Maintenance Log

Inspection Date	Name & Company

Notes:

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