

DUSTEX® clearblast® 1000

The clearblast® 1000 is a high-pressure dust and fume extraction system providing multiple extraction points on site.

This unit is suitable for the extraction of dust and fumes from; welding, soldering, brazing, grinding, sanding, sawing, cutting and a number of other on site activities. Due to the number of extraction points, this system can also be used as a centralised vacuum system across multiple storeys. This solution can cope with long duct runs and high duct velocities.

The unit has 4 x 102mm extractor ports, suitable to connecting 100mm diameter ducting. The ducting can be further split into any number of extraction points depending on site requirements. Please note, processes such as welding will require minimum airflow as specified by HSG 258, and in turn this will determine the maximum number of extraction points that this unit can cater to. RVT Group can provide flexible PU hose or steel hose depending on the application and length of time that the unit will be in use. Steel hose is generally reserved for long-term projects, however a bespoke solution can be tailored to your requirements. A variety of vacuum tools are listed on page 3 of this document.

The clearblast® 1000 contains an integrated HEPA filtration system. Filtration is provided by a cyclonic separator and cartridge filter system. Automatic pulse jet cleaning, powered from an integrated compressor (150 PSI), is carried out on an as-required basis during operation and as part of the shut-down process, making maintenance hassle-free. The 37kw vacuum pump is PLC controlled to maximise the efficiency of the unit and protect the system from overloads, it starts and stops the motor gradually to minimise loading on both the power supply and mechanical components. The pump is protected from overpressure by a fail-safe valve system. Effectively, this means that the system has been designed to recognise how many outlets are in use and automatically optimise both the pressure and the airflow. A competent Dust Extraction Engineer should be consulted to ensure this equipment is suitable for the application. Hazard data sheets for any product being handled by this Filter Unit should be referred to and the appropriate action taken. The Clearblast Filter Unit must be used in accordance with the ATEX DIRECTIVE. ATEX Workplace Directive 1999/92/EC places the responsibility on the end-user to make a suitable risk assessment, particularly in the extraction of potentially explosive dust.

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Due to extremely high pressures, this unit can provide extraction and filtration over long distances. The 4 extraction points can be split into multiple extraction points to provide a centralised vacuum system across a large site or multiple storey building. Please see example diagram below.

Caution; The system has been designed to capture and filter a variety of materials at one time (including hazardous substances), however it is imperative that conflicting volatile substances are not extracted at the same time.



This diagram shows an example of 3 of the extraction points in use. More extraction points can be made available if required.



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Technical specifications

Dimensions	Length 2.5m Width 2.3m Height
Power supply	2.3m 415V 63A 3 phase + neutral
Weight	1300kg
Design airflow	3000m ³ /hr
3000m ³ /hr	20 kPa
Duct connections	4x 102mm
Generator required	60kVa
Maximum duct length (depending on system design)	Approx. 100m

Accessories

Hose reel on stand

Facilitates transport and storage

Cleaning system

Floor and table cleaning vacuum hoses for systems in dimension 50 mm.



Key Applications

- ✓ Extraction of welding fumes and grinding dust during repairs to boilers, furnaces, and ships.
- ✓ Extraction of GRP dust and resin odours during repair works.
- ✓ Centralised extraction system for construction projects and on-tool extraction

Features & Benefits

- ✓ Efficient and effective local control for a range of applications
- ✓ Up to four extraction ducts which can be further split to provide maximum flexibility.
- ✓ ATEX rated for flammable dust types Automatic filter cleaning using integrated compressed air supply
- ✓ Fully enclosed system keeps harmful dusts and waste contained
- ✓ Eliminates manual handling and other associated health and safety issues such as poor air quality
- ✓ Range of tools and nozzles available to attach to flexi hose allowing access to hard to reach areas
- ✓ Waste material feed back to one central location and various waste discharge options are available for easy disposal into skips, bins, onto conveyors, or back in to process – saving time and money

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