

RAVEX® D1200

The D1200 is a high-pressure dust and fume extraction system with 8 extraction ports which can be split into further extraction points depending on site requirements. This unit is suitable for activities such as 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 extract via long duct runs and high duct velocities.

The unit has 8 x 100mm extractor ports, suitable to connecting 100mm diameter ducting. The ducting can be further split to create multiple 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 support.

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.



Features & Benefits

- ✓ Efficient and effective local control for a range of applications
- ✓ Up to eight extraction ducts which can be further split to provide maximum flexibility
- ✓ 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 materials feed back into 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

Key Applications

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

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Due to extremely high pressures, this unit can provide extraction and filtration over long distances. The 8 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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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.

The 45kW vacuum pump is programmable logic computer (PLC) controlled to maximise the efficiency of the unit and to 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.

One of our competent LEV engineers 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.

Technical Specifications

Dimensions (L x W x H)	Length: 3.05m Width: 2.44m Height: 2.59m
Weight (kg)	2850kg
Power Supply	415v 125a 3 phase
Design airflow	4,000m ³ /hr @ 20kPa 4,500m ³ /hr @15kPa
Dust connections	8x100mm

