



# DUST AND HARMFUL PARTICULATES GUIDE

*Speedy Hire's guide  
to dust suppression  
and extraction*

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## ***Introduction to Dust Management***

Dust in the workplace can be hazardous to health if breathed. Some dusts such as construction dusts pose a significant increase in health risk. For this reason control and mitigation methods such as suppression with water or on-tool vacuum collection is common practice. If using on-tool dust collection this is classed as Local Exhaust Ventilation (LEV) which means that the vacuum collection unit falls under the Coshh regulations.

Regularly breathing construction dust can cause diseases like lung cancer, asthma, chronic obstructive pulmonary disease (COPD – which includes emphysema and other breathing difficulties) and silicosis. Silica is the second biggest killer of construction workers after asbestos. Some of the most common construction jobs create high dust levels. These jobs often involve the use of power tools like cut-off saws, grinders, breakers, and sanders. There is a legal duty for employers to prevent or adequately control worker exposure to construction dust. On-tool extraction is an effective control for this dust and will reduce the risk of ill health.

## ***How to choose on-tool extraction***

On-tool extraction is a type of local exhaust ventilation (LEV) system which is fitted directly onto the tool. The system consists of several individual parts – the tool, extraction unit and tubing.

Each part plays a role in establishing how effective the system is and the level of control it gives. Manufacturers/ suppliers do provide complete systems but some parts (especially extraction units) can be used with other tool makes and models.

Our guide has been designed to give you the best solution when dealing with dusty environments.

The Health and Safety Executive (HSE) have made dust a primary focus, they have powers to issue fines where inefficient, wrong, or no dust extraction is being used.

These three factors highlight the importance of using dust extraction, but what about using the correct type of dust extractor? However, you may be thinking what is the difference between the various classes?

There are three main classes of dust extraction in the UK market currently; L, M, and H Class. The official wording of the differences is as follows:

- L Class  $\leq 1.0\%$  Dusts with maximum allowable concentrations (MAC)  $> 1 \text{ mg/m}^3$
- M Class  $< 0.1\%$  Dusts with maximum allowable concentrations (MAC)  $\geq 0.1 \text{ mg/m}^3$
- H Class  $< 0.005\%$  Dusts with maximum allowable concentrations (MAC)  $< 0.1 \text{ mg/m}^3$

L Class extraction is mainly for softwoods and solid surface materials and M Class extraction is used mainly for hardwood, concrete and brick dust. However, please always seek advice from a competent person before making a decision on dust extraction.

## ***Dust Suppression - Why it's important***

Dust suppression and control is an important part of staying compliant. It is even more essential during the warmer, drier months when dust is much more prevalent, largely due to dry, hot conditions and an absence of rain. The dust particles become airborne and are further aggravated by the operation of heavy machinery and vehicles on a site.

Dust inhalation can pose a threat to not only the workers but also those living nearby. It can cause lung disease and disability, and even fatalities. Dust isn't just dangerous to your team it can also pose a huge threat to nature and wildlife – especially if the dust particles get into local the environment. The particles from some particulates, can lead to life altering lung disease. So it's therefore really important to consider dust suppression.





## REMOVE DUST AND DIRT WITH SPEEDY HIRE'S RANGE OF DUST CONTROL AND EXTRACTION UNITS

Choose from our range of most popular dust products for 4 hour delivery - nationwide, when you order by 3pm. Look out for the following icon online and on the Speedy Hire App.



### DC Aircube 200 Air Cleaner 110v 30kg

20/0043-h

The DC AirCube 2000 is a robust air cleaner with ECO-fan and a capacity of 1800m<sup>3</sup>/h which makes it our most powerful single phase air-cleaner.

It is also equipped with variable speed transmission to save energy, e.g. at night.



### DC Aircube 500 Mobile Dust Extractor 110v 13kg

20/0026-h

Developed for ease of use and high durability, built from stainless steel sheet metal to be extra damage resistant.

This fan unit is a radial blower with a specially designed scroll to build up high pressure across its complete flow range.

This means that the unit generates large amounts of airflow during the entire lifetime of the filter.

### DC2900C Eco Dust Extractor 110v 16kg

13/0141-h

The DC 2900 is suitable for vacuum cleaning and source extraction from hand-held power tools (with up to 5" suction casings) and small table saws.



### Hive Cutting Tent

04/0209

Hive Work Zones are an inflatable, cost effective & easily re-locatable self-contained workspace with the concept of minimising the spread of respirable dust produced from cutting processes throughout your project.

Hive Work Zones stop the migration of dust leaving the tent, as well as preventing dust outside from entering – making it ideal for use as a site welfare unit or offices.



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Alternatively call 0345 609 9998

## Husqvarna DE 110i H

13/0150

This versatile H-class dust extractor is powered by Husqvarna's own 36 V BLi batteries and is an excellent match for hand-held battery equipment.

It features a user-friendly HMI and an e-flow function that automatically adjusts the air flow while securing high runtime from the batteries.

It also features embedded connectivity allowing you to swiftly monitor location, service and filter status along with other valuable usage data.



## Husqvarna A 2000

20/0043A

A 2000 is one of the most advanced portable air cleaners available on the market. It is tested and certified for use as both an air cleaner and a negative air machine.

Thanks to a reliable filter system and a design that is perfectly matched to operation with HEPA class H13 filters, that are tested and certified at an efficiency rate of 99.99% at 0.3 microns, the air cleaner puts out superior air quality – be it when dealing with concrete dust, fine sanding dust or gypsum dust. It has two warning lights to indicate when the filters are clogged or leaking. Operates at two very quiet speeds. Thanks to the compact design, the unit is easy to move and transport. Non-marking, lockable wheels allows for easy transport.

## Husqvarna DE120 PACE Battery Powered Dust Extraction Unit 94v 41kg

13/0228

The Husqvarna DE120 Pace is a powerful and efficient battery-powered H-Class industrial Dust Extractor designed for use with larger hand-held power tools, ideal for demanding, heavy-duty applications.

### Key Product Features

- Compact and lightweight
- Contains a HEPA filter [with EN1822 certification]
- IP rating: IPX4



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## ***HILTI TE DRS-B Dust Removal System 0.77kg***

13/0137-h

The Hilti TE DRS-B is designed to keep dust to a minimum using suction to remove dust at source during concrete chiselling.

Dust removal system for concrete chiselling with Hilti SDS Max (TE-Y) and TE-S breakers.



## ***DC Tromb 400C Eco Dust Extractor 110v 51kg***

13/0142-h

The DC Tromb is not just powerful, robust and effective but also versatile and all-round.

It can handle all kinds of fine dusts and materials created on a construction site created from cutting concrete, sanding, grinding or drilling floors or walls as well as dust from many other industrial factory processes.

The machine can be connected to floor grinders and hand-held tools like cutting machines, chisel hammers and saws.

Due to its compact design the DC Tromb is also easy to move and transport.



## ***Hilti VC 40-UM wet and dry Dust Extraction unit 110v 14.7kg***

13/0144-h

The Hilti VC 40-UM is a robust wet/dry dust extraction unit for use in conjunction with Hilti products such as grinders, cutters, drills and diamond coring for the collection of large quantities of dust and drilling slurry (mineral materials) as well as wet and/or dry cleaning of wall and floor surfaces.



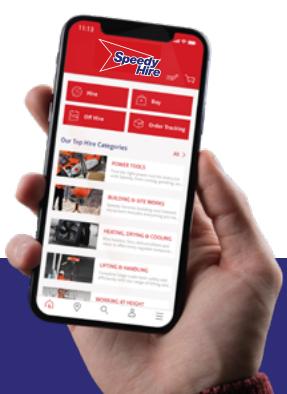
## ***Hilti TE DRS-6-A Dust Removal System 1kg***

11/0130-h

Hilti TE DRS-6-A on-board vacuum system for convenient dust collection.



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## **Towerlight DFSmart-16 Dust Fighter 2.2kw 240v 79kg**

13/0165-h

The Dust Fighter DF Smart is the smallest dust control unit of the Dust Fighter range for outdoor jobs.



Extremely light and easily portable, it can be used in a lot of different application fields on small working areas.



## **Dustcontrol DC 1800 Dust Extraction Unit 240v 14kg**

13/0143

The Dustcontrol DC 1800 is a lightweight and portable Dust Extraction Unit designed for vacuum cleaning and source extraction from hand-held power tools [with up to 5" suction casings] and small table saws. Ideal for use with sharp items such as metal chips. Please note: Plastic sacks to be purchased separately.

### **Key Product Features**

- Sturdy steel chassis with big wheels
- HEPA H13 Filter
- Lightweight and portable



## **Generac DF Mini Dust Fighter 2.6kw 110v 70kg**

13/0175-h

The Dust Fighter DF Mini is a portable dust management unit able to spray the nebulised water up to 8 metres.

It's an ideal solution for indoor jobs, like indoor demolitions and renewals.

It's also ideal for asbestos removal, since the absence of a fan allows the operator to suppress the asbestos dust without moving it in the air.



## **Air Spectrum RA-110V-M Dust Suppression Unit 110v 500kg**

13/0168-h

The Air Spectrum RA-110V-M 110v Mobile Dust Suppression Unit is designed to localised odour & dust issues.

### **Key Product Features**

- Highly energy efficient
- Covers large areas and projects long distances



## **Husqvarna WT15i Battery Powered Water Bottle 3.6kg**

15/0272

The Husqvarna WT15i is a compact and easy-to-use 15ltr Water Bottle designed to enable you to work more efficiently by dispensing a constant and pressurised water flow without manual pumping.

### **Key Product Features**

- Compact design
- Efficient dust handling
- Convenient and mobile
- 3m hose



### **DUSTEX® DustMaster Pro**

The DustMaster® Pro is the ultimate dust control solution; a self-contained mobile dust extraction unit designed to capture and filter dust from a wide range of applications. This unit is ideal for protecting workers against Silica Dust.

#### **Key Product Features**

- Creates a negative pressure environment to stop dust migration
- Captures dust at source and reduces cross contamination



### **DUSTEX® Hydramist 15GT**

The Hydramist 15GT is an excellent system for emergency odour and/ or dust problems.

#### **Key Product Features**

- Self-sufficient – includes generator and water tank
- Extremely water efficient – 6 hour+ tank life



### **DUSTEX® B3 Vacuum**

A powerful industrial vacuum with an automatic filter-cleaning system, designed to collect high volumes of dust quickly.

### **DUSTEX® Hydramist 10**

The Hydramist 10 is designed to provide targeted and controlled water suppression, to manage airborne dust generated from a range of local activities.



#### **Key Product Features**

- Use either a mast or water line to provide suppression precisely where required
- Internal Water Tank

### **DUSTEX® Pop-up Tent**

A compact, very quick to erect single component tent that can be used for multiple application.

#### **Key Product Features**

- Flame retardant material
- One man operation



**To find out more about our Customer Solutions**

**Call: 0345 600 3546 or Email: [customersolutions@speedyhire.com](mailto:customersolutions@speedyhire.com)**



## DUSTEX® Hydramist 13

Easily transported and quick to set up, the Hydramist 13 is a powerful option for controlling airborne dust.

### Key Product Features

- 13m throw
- 10 to 50-degree tilt
- Runs from domestic hose pressures



## DUSTEX® Hydramist 35GT

The Hydramist 35GT is a self-contained, mobile dust suppression bowser, designed to control dense, airborne dust produced by a wide range of construction and demolition site applications.

### Key Product Features

- Self-contained, all in one unit
- 2,000-litre capacity tank



## DUSTEX® Hydramist 15GT

The Hydramist 15GT is an excellent system for emergency odour and/ or dust problems.

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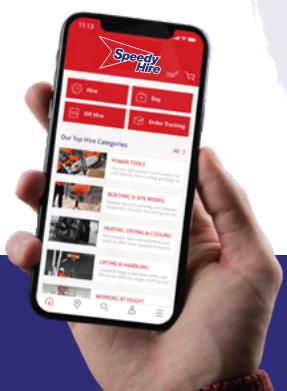


## DUSTEX® Hydramist 50GT

The Dustex® Hydramist 50GT is a self-contained mobile dust suppression unit designed to control dense, airborne dust produced by a wide range of construction and demolition site applications.

### Key Product Features

- 1,000 litre water tank
- Diesel powered for long, reliable run times



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When dust cannot be completely eliminated, Speedy can offer high-quality PPE products which will provide that additional level of protection.

### **Milwaukee FFP3 Respirator With Valve - 10PC**

**C45280955A-s**

The Milwaukee FFP3 Respirator utilises advanced filtration technology to safeguard the user against hazardous airborne particles. The FFP3 classification signifies its exceptional filtering capabilities, providing up to 99% filtration efficiency for solid and liquid aerosols, including dust, fumes, and micro-organisms. This ensures that you can confidently tackle any job, even in the most challenging environments.



#### **Key Product Features**

- Compatible with Milwaukee® Safety Eyewear
- One way valve ensures fog free and easy breathing



### **JSP CEA646-001-100 PowerCap Infinity Kit 3.6v 1.2kg**

**80/0121-h**

The JSP PowerCap Infinity, Powered Air-Purifying Respirator offers high-level protection against multiple hazards. It combines TH3 respiratory protection with eye, face, and head protection with the option of adding Sonis ear defenders for hearing protection.

#### **Key Product Features**

- User responsive smart PPE: real-time diagnostics that monitor the system twice a second allow the user to identify and differentiate between any issues with the unit
- Fully rechargeable, offering an 8-hour battery life

### **MSA G1 Basic Mask 0.7kg**

**25/7182-h**

The G1 Full Face Mask sets new standards for wearing and breathing comfort. Minimum pressure points can be felt on the face.

#### **Key Product Features**

- Coordinated components with limited interfaces for superior system performance
- Low inhalation and exhalation resistance
- Huge field of vision for unobstructed view
- Reduced weight, bulk, and obstruction offer increased user performance



**For more information about our PPE products, please contact the Speedy Hire team today: 0345 609 9998**

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## **DUST MANAGEMENT AND AWARENESS TRAINING**

Many tools and equipment create dust. If not properly monitored, managed or reduced, dust can be seriously harmful to your health. Our dust management and awareness courses are designed to inform and advise your workforce on safe practice and hazard prevention.

### ***Safe Selection and Safe Use of Abrasive Wheels on Portable Machines***

For any worker required to use abrasive or diamond wheels or who requires knowledge of the associated regulations.

Provides a thorough understanding of hazards associated with abrasive wheels and complies with Provision and Use of Work Equipment Regulations (PUWER).

Includes a practical session in the safe use of cutting discs on angle grinders and cut off saws.

### ***Qualitative Face Fit Testing***

For all workers required to wear half face disposable (or reusable) respirators whilst carrying out their work duties.

### ***Asbestos Awareness***

This half-day course is fully compliant with Regulation 10 of the Control of Asbestos Regulations.

Contents include: what asbestos is, typical locations where asbestos is found and how to avoid exposure.



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