



Unimaster Range

The Universal Dust
Control Unit

Donaldson Dust Collection Group



The Complete Solution...



The Unimaster dust control unit is the most economical and effective solution for a diverse range of nuisance dust problems throughout industry. The Unimaster's unrivalled quality and versatility mean that it is suitable for a multitude of applications. As a result, the Unimaster range is DCE's most universally accepted dust collector.

Asbestos weighing & compressing



Ceramic dust mixing



Principle of Operation

Air Flow

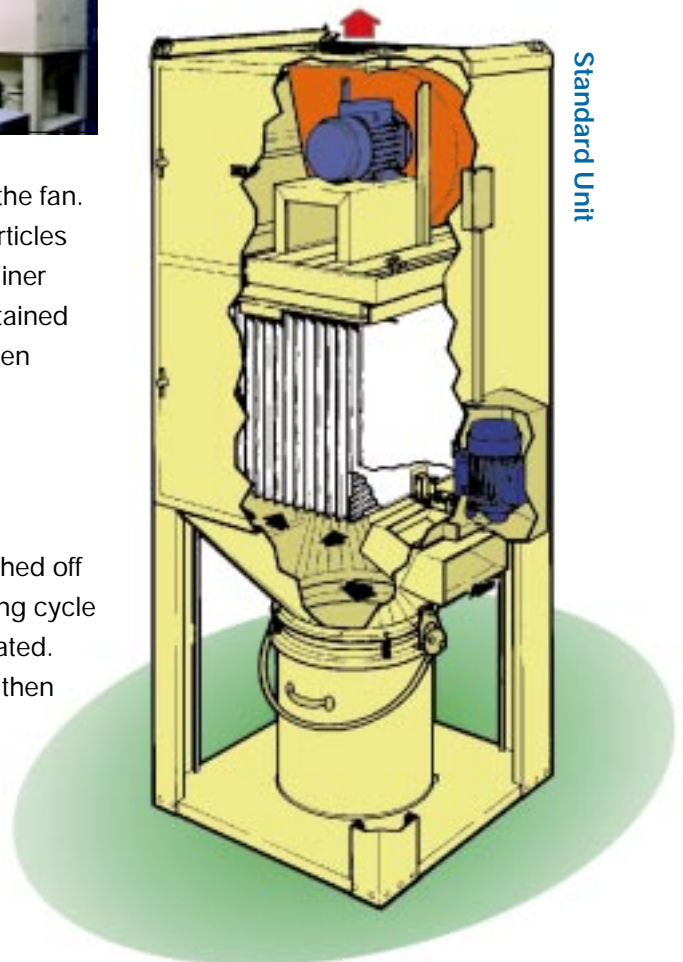
Contaminated air from the dust generation source is drawn through the inlet to the filter by the fan. Initially some pre-separation takes place as heavier dust particles lose momentum and fall into the collection bin or hopper. Finer dusts are carried up to the filter elements where they are retained on the outer surface of the filter fabric. The cleaned air is then passed through the filter fabric into the fan chamber and discharged.



Polymer powder sack unloading

Cleaning

When the fan is switched off the filter fabric cleaning cycle is automatically activated. The collected dust is then dislodged from the filter elements and falls into the collection bin below.



...for a variety of nuisance dust problems...

Dust Capture at All Points.....



Food packing

The Unimaster is an ideal dust collector for intermittent operations in plant processes. Several small self-contained Unimaster units can be placed at the points of dust generation. This approach results in total dust capture and flexibility of operation.

This integrated concept brings many benefits:

- ▶▶ Lower capital cost
- ▶▶ Lower operating and energy costs
- ▶▶ Simplified maintenance
- ▶▶ Plant flexibility
- ▶▶ Minimisation of safety hazards

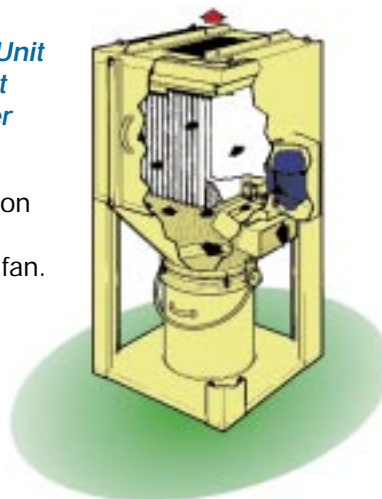
Venting Unit

For venting systems and processes under positive pressure.



Venting Unit with dust container

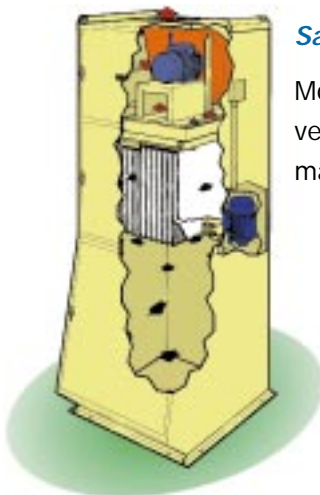
Used in conjunction with free standing fan.



Plastics profile cutter

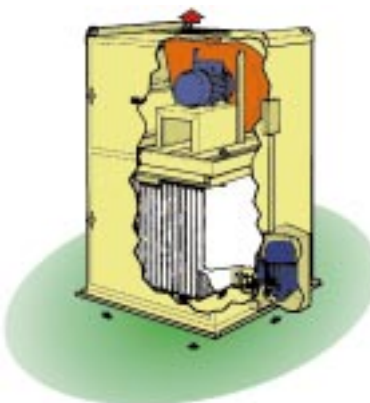
Sack Tipping Unit

Mounted above vessels which are manually charged.



Hopper Unit

Suitable for location on dust container.



Explosion stiffened unit, sculpting studio



Woodwaste

...designed for low energy consumption



Universally Tried, Tested and Trusted....



Cigarette making

- ▶▶ **Versatile range**
Over 500 combinations and numerous ancillaries.
- ▶▶ **Compact**
With flat envelope shaped multipad filter to provide maximum fabric area for minimum floor space.
- ▶▶ **Filter materials**
A range of fabrics to suit any application.
- ▶▶ **Advanced fan design**
Reduced noise levels and enhanced efficiency and performance.
- ▶▶ **Controller**
Easy to install/connect. Ensures the filtration efficiency is properly maintained.
- ▶▶ **Cost effective**
No requirement for compressed air.

The A-Z of Unimaster Applications

A	Abrasive Blasting	○	○	Nylon Brush Machines	N
B	Blending	○	○	Optical Equipment Manuf.	O
C	Cigarette Manufacture	○	○	Powder Spray Booths	P
D	Drilling			Quartz Grinding	Q
E	Epoxy Powder Coating			Routing	R
F	Fettling	○	○	Shot Blasting	S
G	Granulator	○	○	Transfer Points	T
H	Hopper Venting	○	○	Unloading Operations	U
I	IBC Bag Filling/Emptying			Vibratory Screens	V
J	Jewellery Polishing	○	○	Weighing	W
K	Knockout	○	○	Xanthan Handling	X
L	Laminar Flow Booth	○	○	Yeast Processing	Y
M	Mixing			Zinc Polishing/Grinding	Z



A Complete Range of Accessories

Acoustic Diffuser

Capable of reducing noise levels to well below 80db (A) measured at 1 metre from the unit.

Secondary Filter or Absolute Filter

Can be fitted to Unimasters handling hazardous dusts. It also acts as a fail safe device should the main filter element become damaged.

Filtration Media

Variety of filtration media available to suit many applications.

ie: *Cotton*
Flameproof Cotton
Polypropylene Anti-static
Polyester Needlefelt
Polyester Oleophobic Needlefelt

Static Earthing

Should the material being handled generate a static charge this can be safely dissipated to earth.

Pressure balance pipe

Ensures the stability of the dust collection bag allowing for the safe removal of collected material.



Explosion relief

Bursting panels consist of a membrane with internal supporting mesh located on the dirty side of the unit.

Also Available - a stainless steel version for most units

Company Profile

Torit DCE is world-renowned for the quality of its products and application expertise. It also offers the widest choice of dust, fume and oil mist control products, solutions and services available. These are supported worldwide with a dedicated network of wholly owned distributors and authorised agents.

With 80 years' experience, Torit DCE provides the strength to deliver proven solutions to numerous environmental control problems.

Torit DCE designs, manufactures and installs a complete range of collection equipment. These products use a wide variety of media including: cartridge technology, spun-bonded polyester modules, fabric bags and rigid sintered elements. Torit DCE also designs and installs complete systems based on its leading range of products.

* Customer Service *

Torit DCE products are supported by a fully inclusive after sales and technical support service package covering:

- * *Technical support group*
- * *Complete turnkey installations*
- * *Installation*
- * *Commissioning*
- * *COSHH testing & inspection scheme*
- * *Service and maintenance scheme*
- * *Spare parts*

Dust Control Capability...

Insertables

For all material handling applications.



Cased Units

For all medium-large air volume requirements.

Concept Units

The packaged engineering solution.



...For a Wide Range of Applications



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