

## Standard Features & Options

Standard Features	DLMC	DLMV
Factory-Installed 454g. Scrim-Supported, Singed Polyester Filter Bags	✓	✓
Standard Leg Packs meet Local Requirements	✓	
Trough Hopper, UMA Hopper, Pyramid Hopper, or 2 and 3 Bank Single Outlet Hopper	✓	
Solid-State Control Panels and Valves Mounted in Enclosure	✓	✓
Equipment Options	DLMC	DLMV
Antistatic Filter Bags	✓	✓
Variety of Bag Media Options	✓	✓
Stainless Steel Construction	✓	✓
Flame Proof Electrical Enclosure	✓	✓
High Temperature Modifications up to 200°C	✓	✓
Magnehelic®* Gauge	✓	✓
Photohelic®* Gauge	✓	✓
Electronic Controller	✓	✓
Moisture Separator and Pressure Regulator Package	✓	✓
Quick Release Filter Clamps	✓	✓
Ladder, Cage and Platform Assemblies that meet Local Safety Guidelines	✓	
Rear Dirty Air Plenum Access Door	✓	
Explosion Relief Vents or Stiffening	✓	
Sprinklers	✓	
Vertical or Horizontal Upstands		✓
Explosion-Proof Motors		✓

\* Magnehelic and Photohelic are registered trademarks of Dwyer Instruments, Inc.

## COMPLETE INDUSTRIAL FILTRATION SOLUTIONS

### Total Project Management

From initial contact to final installation and commissioning, Donaldson can design and manage a solution engineered to meet your application requirements.

### Largest Range

Donaldson has the world's largest range of dust, fume and mist collectors and the most complete line of filter media from which to select the best system to suit your application.

### Aftermarket Sales and Service

Donaldson offers a comprehensive service program complete with spares and aftermarket filters to ensure the smooth, reliable and continuous operation of your installation.



Engine Filtration Products



Compressed Air Purification



Gas Turbine Filtration



PTFE Membrane Technologies



Hydraulic Filtration



Dust, Fume & Mist Collection

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## DALAMATIC® DUST COLLECTORS



# Dalamatic® Dust Collectors

## Proven Performance, Compact Design

The versatile Donaldson Dalamatic series of dust collectors delivers powerful solutions for nearly any dust filtration application. These collectors come in two models:

- **Dalamatic Cased (DLMC):** A stand alone collector that can be ducted to many different applications;
- **Dalamatic Insertable (DLMV):** A versatile collector that can be inserted into various applications, such as bins, silos, bunkers, storage vessels or transfer points. Both models are continuous-duty dust collectors designed to handle the most difficult product recovery applications.

## Dalamatic Offers:

- **Continuous Collection:** Provides continuous filtration of high dust concentrations at high filtration velocities and constant levels of resistance in almost any industry and application.
- **Compact Design:** Unique modular design allows for installation in the most space restricted areas. Envelope-shaped bags maximise the amount of media in a given space and allow for increased space between bags, minimising the chances of bridging.
- **Fewer Bag Changes:** Envelope-shaped bags are scrim-supported singed polyester, promoting longer bag life.
- **Versatility:** A full range of sizes and types of bags are available for a wide variety of dust collection applications.

## Typical end-use applications

- **Asbestos**
- **Bauxite**
- **Cement**
- **Cereals**
- **Chemicals**
- **Coal**
- **Detergents**
- **Fertilisers**
- **Flour**
- **Foodstuffs**
- **Foundry sand**
- **Glass**
- **Graphite**
- **Insecticides**
- **Iron and steel**
- **Metal compounds**
- **Minerals**
- **Pharmaceuticals**
- **Pigments**
- **Plastics**
- **Sugar**
- **Tobacco**

## Powerful, Continuous-duty dust collectors



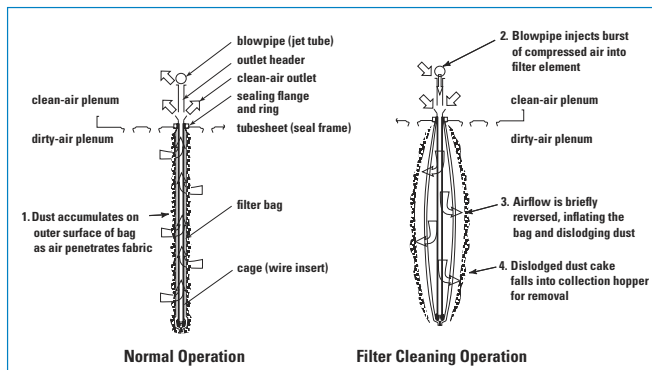
## Flexible, Effective Filter Media

Dalamatic dust collectors use filter media comprised of a flat fabric bag manufactured to the highest tolerances. The bag is mounted on a unique wire frame to ensure optimum airflow and thorough cleaning of the fabric.

The unique operation of the bag helps achieve high filtration efficiencies.

First, dust accumulates on the outer surface of the bag as air penetrates the fabric. Next, the blowpipe, (jet tube) injects a burst of compressed air into the filter bag. Airflow is then briefly reversed, inflating the bag and dislodging dust. Finally, the dislodged dust cake falls into the collection hopper for final removal, or directly back into the process.

## Principles of Filtration



## Dalamatic Cased (DLMC)

Centrally located, these multi-module dust collectors allow a single collection point for many process applications involving heavy dust burdens. The modular design provides almost unlimited bank and tier configurations for any specific fabric area, and with a compact footprint, the installation can be configured to meet the particular space available.

- There are 45 sizes in the range from 45m<sup>2</sup> to 1,200m<sup>2</sup> in fabric area
- Modular design gives dimensional and capacity flexibility
- Filter bags are changed horizontally enabling easy installation within buildings

- Ability to install units face-to-face (double-banked) enables reduced platforms and ductwork whilst retaining the advantages of easy access for maintenance
- Envelope-shaped bags provide maximum filter area per given space and ensure efficient cleaning
- Delivered in pre-assembled modules for ease of transportation and final installation
- Downward airflow pattern minimises dust re-entrainment
- Unique filter support provides efficient cleaning and reliable service life.



## Dalamatic Insertable (DLMV)

The Dalamatic Insertable dust collector is designed to cope with the high dust concentrations and filter velocities encountered in bins, silos, bunkers and other storage vessels. Simply inserted directly into storage vessels, conveying systems and process machinery, its continuous operation automatically removes collected dust or returns it to the process.

- Five configurations to suit most process applications

- Uses positive pressure of the conveying air or can be fan powered for pneumatic conveying applications
- Bags can be installed hanging vertically, or at a variety of angles
- Can be inserted into hood enclosures at belt transfer points, bucket elevator casings, ribbon blenders and receiving hoppers for clamshell unloaders
- Insertable approach reduces or eliminates ducting costs; minimised ducting can also result in reduced energy costs



## Dura-Life™ Twice the Life Filter Bags

Dura-Life bags from Donaldson last 2 to 3 times longer than standard 454g polyester bags and are now fitted as standard on Dalamatic Cased and Insertable dust collectors.

Standard polyester bags are woven with a needling process that creates larger pores where dust can be embedded into the fabric, inhibiting cleaning and reducing bag life.

Dura-Life bags are engineered with a unique hydroentanglement process that uses water to blend the fibres, resulting in:

- More uniform material with smaller pore size
- Better surface loading of dust that prevents penetration deep into media
- Improved pulse cleaning and lower pressure drop, which results in energy savings
- Longer bag life resulting in less frequent change-outs and substantial savings in labour and bag costs

