

# Unicell Dust Collectors



# Unicell

## Precisely The Right Fit

Unicell dust collectors are more efficient and cost effective than ever. Only available from Donaldson, Unicell dust collectors now have fewer components and in most instances provide up to 25 percent more media. One of the most user-friendly and highly efficient dust collectors on the market, Unicell delivers unparalleled performance in a variety of units tailored to a wide range of filtration needs.

Unicell accommodates a variety of applications and air volumes in small and large manufacturing operations alike. Unicell's design conserves valuable manufacturing plant floor space while providing highly efficient cartridge filter elements that can be maintained and replaced without the use of tools. For a dust collector that is just the right fit, rely on Unicell from Donaldson.

Up to  
**25%**  
MORE  
MEDIA

### Unicell Offers:

- **More media**
- **Compact design**
- **High performance cartridge filters**
- **Fast, easy installation**
- **No-tool filter element replacement**
- **Easy maintenance**
- **Continuous automatic reverse jet cleaning**
- **Quiet operation\***



\*Fan noise level: 66-82dB (A)

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## Filtration Engineered for Performance

When you need an innovative and highly efficient dust filtration solution, turn to the dust collector designed with the user in mind — Donaldson's Unicell.

- **Effective Filtration** Unicell filter elements are at the heart of the Unicell range of collectors, designed for high filtration levels with each element providing 5m<sup>2</sup> of effective filtration area and constructed of wide pleat spun-bonded polyester for effective cleaning with low compressed air usage.
- **Innovative** Unicell is the high performance solution for applications up to 12,000 m<sup>3</sup> per hour. Offering maximum air handling capacity, Unicell range offers filtration areas from 10m<sup>2</sup> to 90m<sup>2</sup>.
- **Compact Footprint** Modular, self-contained Unit range of Unicell collectors occupy minimal floor space and fit virtually any modern manufacturing plant design.
- **Reliable Performance** Developed using continuous reverse jet cleaning, Unicell provides uninterrupted operation and proven IPC controllers for maximum reliability.
- **Easy Maintenance** Enclosed controls and cleaning makes Unicell quick and easy to maintain.



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## Dimension and Filters

Unicell collectors are offered in a broad range of sizes to suit diverse collection applications. Unicell filters provide superior levels of filtration with wide pleat spun-bonded polyester construction.

### UNICELL SIZES

Model	Filtration Area	Filtration Area per element (m <sup>2</sup> )	No. of Filters	Tiers
C10-3	10m <sup>2</sup>	5	2	1
C20-3	20m <sup>2</sup>	5	4	1
C30-3	30m <sup>2</sup>	5	6	1
C40-3	40m <sup>2</sup>	5	8	2
C50-3	50m <sup>2</sup>	5	10	2
C60-3	60m <sup>2</sup>	5	12	2
C75-3	75m <sup>2</sup>	5	15	3
C90-3	90m <sup>2</sup>	5	18	3

### UNICELL FILTERS

Description	Media	Area M <sup>2</sup>	Dimensions	Temp Limit	Con-ductive	End Cap
UNC Unicell Cartridge, Std 5.0m <sup>2</sup>	260g Spunbonded Polyester	5.0	70x475x1004	60°C	No	Polyurethane
UNC Unicell Cartridge, Anti-Static 5.0m <sup>2</sup>	260g Anti-Static Spunbonded Polyester	5.0	70x475x1004	60°C	Yes	Polyurethane (in metal tray)
UNC Unicell Tobacco Cartridge, Std 5.0m <sup>2</sup>	260g Spunbonded Polyester	5.0	70x475x1004	60°C	No	Epoxy Resin
UNC Unicell Tobacco Cartridge, Anti-Static 5.0m <sup>2</sup>	260g Anti-Static Spunbonded Polyester	5.0	70x475x1004	60°C	Yes	Epoxy Resin (in metal tray)
Unicell Non-Silicon Cartridge, Std 5.0m <sup>2</sup>	260g Spunbonded Polyester	5.0	70x475x1004	60°C	No	Polyurethane
Unicell Non-Silicon Cartridge, Anti-Static 5.0m <sup>2</sup>	260g Spunbonded Polyester	5.0	70x475x1004	60°C	Yes	Polyurethane (in metal tray)
UNC Unicell Tetratex Cartridge, Std 5.0m <sup>2</sup>	Tetratex PTFE Membrane on 260g Spunbonded Polyester	5.0	70x475x1004	60°C	No	Polyurethane
UNC Unicell Tetratex Cartridge, Anti-Static 5.0m <sup>2</sup> Spunbonded Polyester	Tetratex PTFE Membrane on 260g Anti-Static	5.0	70x475x1004	60°C	Yes	Polyurethane (in metal tray)

# Unicell

## Standard Features and Options

### Standard Features For Unicell Range

- Proven technology
- Reverse jet cleaning for continuous operation
- Circular inlet for easy connection to incoming ductwork
- Fork lifting facility for ease of installation
- Wide range of fans to suit every application
- No-tool filter replacement for ease of maintenance

### Equipment Options For Unicell Range

- Bin type (80 litre), rotary valve type, hopper types and venting type all available
- Bin equalising for bin type units
- Fan options
- Rear explosion relief
- Anti-static earthing
- Special motors (Eexd, Eexe, Eexn) and wiring
- Anti-spark fans
- Secondary and absolute filter
- IPC, IPC ( $\Delta P$ ), pneumatic (PT) controllers
- Moisture separator
- ATEX compliance

### Media Options For Unicell Range

- Spun-bonded polyester with anti-static option
- Tetratex with anti-static option
- Elements suitable for tobacco applications with anti-static option
- Elements with no silicon for flour product applications with anti-static option

Donaldson®

**Donaldson®** Look to Donaldson for all of your air filtration needs. Although you may not always see our products, you can breathe easier knowing we're there.

**Customer Support** For nearly 90 years, Donaldson has been the leading innovator of air filtration solutions that improve the manufacturing environment for employees the world over. Driven by an unwavering commitment to customer support, Donaldson is the name more manufacturers around the globe trust to deliver the most efficient and productive dust, mist and fume collectors and filter media.

**Unparalleled Innovation** Whether our customers need a single collector or a multi-faceted collection system, Donaldson has the solution. The breadth of Donaldson's innovative product line sold under the Torit and DCE brands is unmatched, offering unparalleled filtration systems, ancillary parts and replacement filters. From central, source and ambient systems to baghouse, envelope and cartridge technologies, Donaldson has the expertise to provide filtration solutions for virtually any application.

**Global Reach** Donaldson manufactures and markets its filtration products throughout the world. As more manufacturers continue to expand and grow their operations globally, Donaldson will be there to serve and support our customers' needs.

**Rely on the Industry Leader** When it comes to air filtration, you need a partner you can trust. Rely on the world leader in air filtration — Donaldson.

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