



United Air Specialists

CLARCOR UK Limited

BDC SERIES



COMPACT MEDIA DUST COLLECTOR

CLARCOR UK

Clean air. It's what we do.™

Model BDC

A COMPACT, MAINTENANCE- FRIENDLY AND COST-EFFECTIVE Dust Collector

The BDC dust collector is a compact, self-cleaning, continuous-duty system that economically meets the needs of most every industrial dust collection application. This advanced system utilizes a pulse-jet cleaning system that effectively "pulses-off" the captured dust and cleans the filter while the system stays on-line. With minimal pressure drop, the BDC's many filter media options maintain 99.9%+ filtration efficiency.

The BDC Series provides superior design and performance with advanced, maintenance-friendly features. Its heavy-duty, rugged construction and factory-assembled sections ensures quick installation and years of dependable performance.



**BDC-11 with
Dust Drawer**

SOLUTIONS FOR MANY DIFFERENT APPLICATIONS

With its versatile construction and multiple media filter options, the BDC can meet virtually any manufacturing dust collection application including:

- Food Processing
- Woodworking
- Moulding, Grinding & Polishing
- Rock, Stone & Glass Operations
- Secondary Smelting
- Pharmaceutical
- Metalworking
- And More



Clean air. It's what we do.

MAINTENANCE-FRIENDLY

Designed with end users in mind, the BDC collector is engineered for fast, tool-free, safe maintenance and filter change. Instead of systems that require workers to crawl inside the unit (a practice that is slow, dirty and dangerous), the BDC's filters can be removed quickly by unlocking the cam bar and simply sliding the filter trays out. This ensures worker safety and greatly reduces necessary service time. Since the BDC system operates automatically and with continuous-duty, the BDC requires little maintenance.



ENERGY EFFICIENT

The BDC's advanced design ensures low pressure drop resulting in reduced blower power requirements and improved energy savings. Its low compressed air requirements and optional safety after-filter allows recirculation, eliminating the need for costly make-up air.



BDC 22

Available in
Stainless Steel
Construction

COMPACT DESIGN

Ideal for low headroom applications, the BDC's compact design greatly reduces the amount of valuable floor space while providing up to 152 sq.M. of media at 99.9%+ filtration efficiency. And because the system is so compact and can be specified with one of multiple discharge designs such as a hopper, dust drawer or bin vent, placement within your factory or outside your facility is easily accomplished!

CONFIGURED TO MEET YOUR SPECIFIC NEEDS

The BDC is designed with multiple filter options so that it can effectively capture airborne pollutants for virtually any dust collection application. To ensure proper media filtration for your application, the BDC can be ordered with Cartridges, Felted Bags or Spun-Bond Pleated Bags. A UAS Representative can help you select the right filter option that meets your requirement.

ADDITIONAL FEATURES AND BENEFITS

Diaphragm Pulse Valves:

Provides durable performance with long-lasting durability.

Custom Air Inlet/Outlet Locations:

Location of inlet and outlet can be specified to meet installation requirements.

Resilient Finish:

All components painted with 2 pack polyurethane that helps prevent fading and cracking.

Heavy-Duty Supports:

Using structural steel angle or channel section with cross-bracing, where necessary, for rigidity.

CLEAN AIR

Quick and Easy Filter Service:

Quick, tool-free filter removal from outside the unit.

Multiple Filter Options:

Ensures proper filter type and media selection for your specific requirements.

Multiple Discharge Options:

Allows for convenient dust disposal that matches your plant requirements.

DIRTY AIR

BDC-21 with Hopper



Clean air. It's what we do.

FILTERS

The advanced BDC collector offers the largest selection of high filtration media filters for applications with even the most demanding requirements. The BDC system has been designed so that it can easily be configured to meet your specific needs utilizing four basic filter options listed below:

250MM CARTRIDGE

Durable filter designed to ensure minimal installation time with high filtration. Available as standard with a non-woven, proprietary material blend with moulded bottom that helps resist abrasive wear. Other cartridge materials are available for unique applications such as: by retardant, wide pleat, washable, high-strength (Spun-Bond) quick release media, PTFE, high temperature and graphite impregnated.



150MM PLEATED BAGS

100% spun-bond media filter provides durable moulded urethane top and bottom end caps. Multiple material options include: oil/water repellent finish, PTFE membrane bonded to spun-bond and conductive impregnation.



150MM FELTED BAGS

Efficient and durable 540g. felted filter provides cost-effective media with high filtration efficiency. Designed as standard for 135° C temperature applications, these filters can also be ordered for high temperature needs (up to 260° C) and with a wide variety of finishes including: napped, singed, glazed, silicone treated, fire retardant, teflon, acid resistant, chemical resistant and silicone/graphite impregnated.



50MM FELTED BAGS

Effective 540g. polyester media filters with high-filtration efficiency designed for 135° C degree maximum temperature applications are available

with same options and finishes as 150mm felted bags.



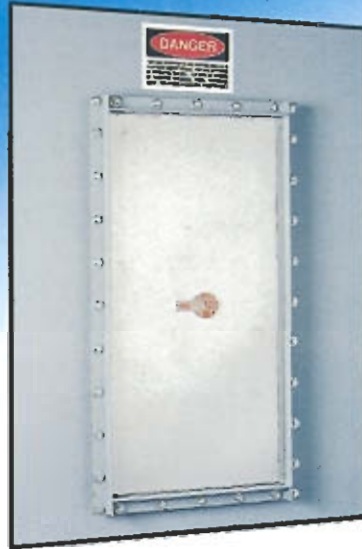
Model	Filter Media (Sq. M)				Filter Quantity			
	250mm Cartridge	150mm Pleated Bag	150mm Poly Bag	50mm Poly Bag	250mm Cartridge	150mm Pleated Bag	150mm Poly Bag	50mm Poly Bag
BDC-11	38	15	2	5	4	9	9	64
BDC-12	76	31	4	10	8	18	18	128
BDC-13	76	31	4	10	8	18	18	128
BDC-14	N/A	62	6	20	N/A	36	36	256
BDC-21	76	31	4	10	4	9	9	64
BDC-22	152	62	6	20	8	18	18	128
BDC-23	152	92	13	30	8	18	18	128
BDC-24	N/A	123	17	40	N/A	36	36	256

OPTIONS AND ACCESSORIES

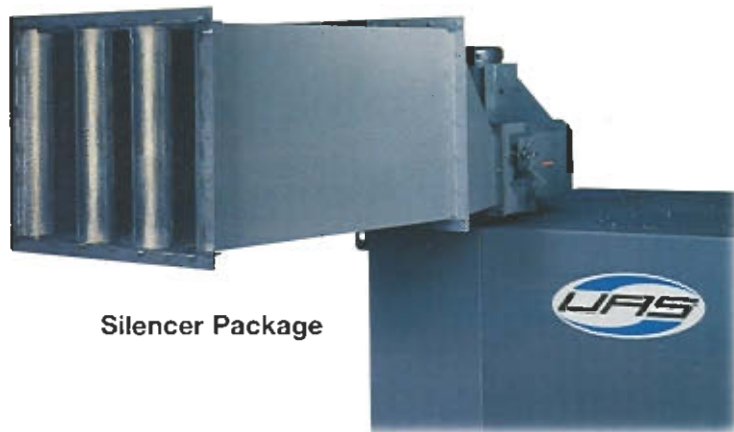
UAS provides a comprehensive selection of options and accessories to enhance the performance of your BDC dust collection system.

Some of these include:

- **Return Air Safety Filters** - Used when air is recirculated into the plant or when collecting hazardous dusts, ensuring that clean air is continuously discharged from the unit.
- **Pressure Relief Panel** - Minimizes damage and provides a degree of personal protection in the unlikely event of an explosion that may result when collecting explosive dusts.
- **Silencer Package** - Duct-type silencer reduces unit noise levels. (80 dBA as specified)



Pressure Relief Panel



Silencer Package

- **Fully Welded Cabinets** - Provide a complete air-tight seal to meet unique specifications.
- **Diagnostic Control System** - Continually monitors operation and displays status while providing multiple pre-determined user cleaning modes.

Diagnostic Control System



Additional Options / Accessories

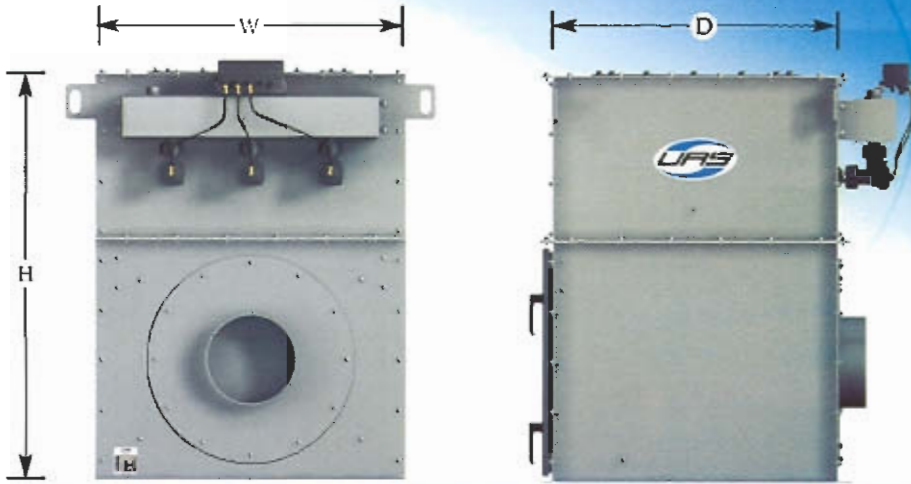
- Stainless Steel Construction (304/316, 2B Finish)
- Fans / Integral Blowers
- Leg Extensions
- Drum Lid Latch Kits
- Photohelic / Gauge Controls
- Hopper Access Doors
- Sprinkler Heads
- Ladder Platforms
- Leg Extensions
- Thermal Protection Kits
- Blowers
- Control Panels
- Other options and accessories available. Contact UAS for assistance.



Clean air. It's what we do.

DIMENSIONS AND SPECIFICATIONS

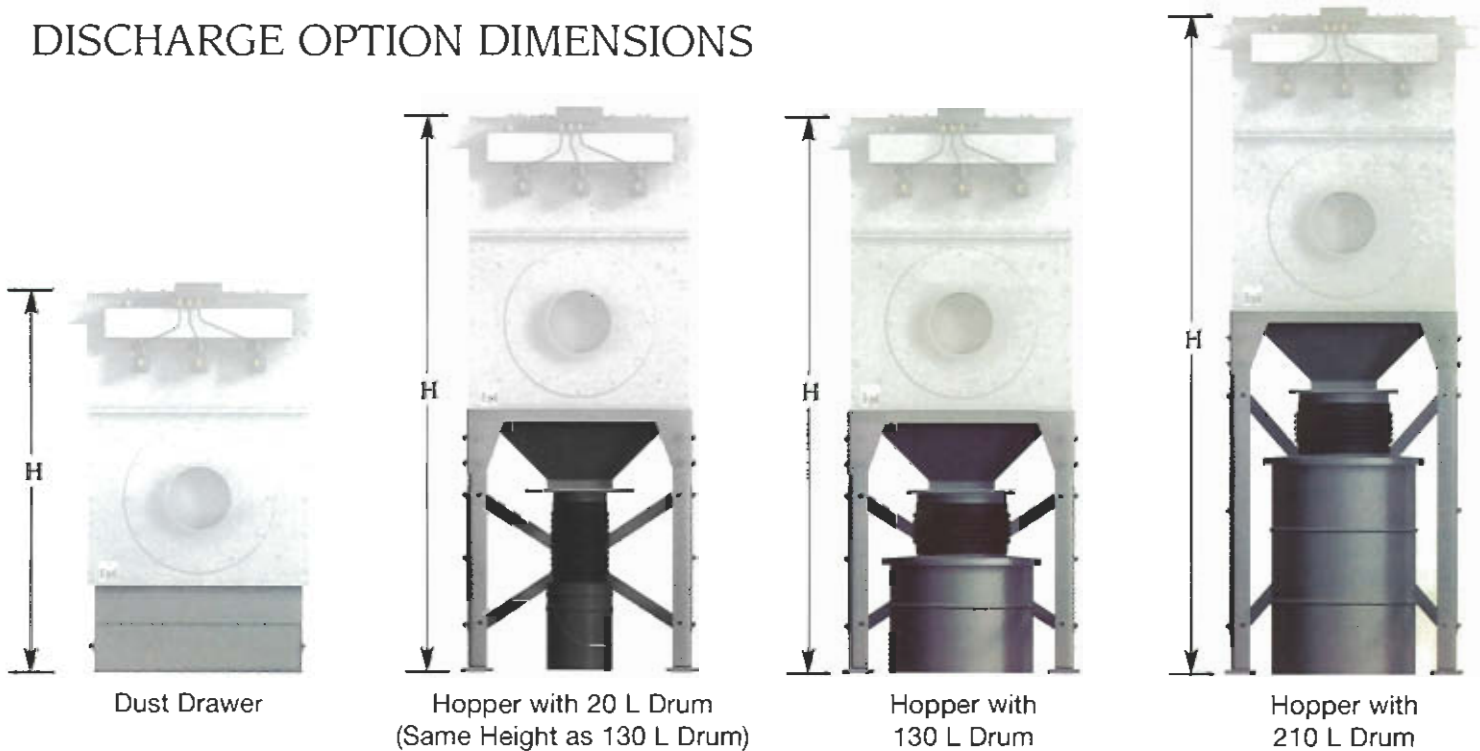
UNIT DIMENSIONS



Model	Height - mm						Width mm	Depth mm	Weight Kg**	Free air per Pulse M³	Free air per Minute M³
	Unit (Bin Vent)	45° Hopper		60° Hopper		Dust Drawer					
		130 L	210 L	130 L	210 L						
BDC-11	1195	2655	2250	2870	2465	1550	890	890	240	0.02	0.14
BDC-12	1195	2655	2250	2870	2465	NA	1780	890	405	0.03	0.17
BDC-13	1195	2655	2250	2870	2465	NA	890	1780	405	0.03	0.17
BDC-14	1195	3050	2640	3555	3150	NA	1780	1780	610	0.04	0.21
BDC-21	1690	3150	2745	3350	2945	2030	890	890	300	0.02	0.14
BDC-22	1690	3150	2745	3350	2945	NA	1780	890	495	0.03	0.17
BDC-23	1690	3150	2745	3350	2945	NA	890	1780	495	0.03	0.17
BDC-24	1690	3545	3135	4040	3630	NA	1780	1780	725	0.04	0.21

** Weights do not include discharge options

DISCHARGE OPTION DIMENSIONS





United Air Specialists

CLARCOR UK Limited

WHY CHOOSE UNITED AIR SPECIALISTS?

A **world-renowned reputation**. For more than 35 years, we've been the industry leader in air quality technology — a proven track record that speaks for itself.

Commitment to quality products. Measuring our quality against documented expectations, we practice continuous improvement methods to anticipate challenges and implement successful solutions.

Unparalleled customer support. As a customer-driven solutions provider, we earn credibility and establish successful relationships by exceeding expectations for professional service and attitude.

Innovative technical leadership. Always, we keep technology at the forefront — ensuring continuous product advancements through ongoing investments in design and manufacturing.

CLARCOR UK

Clarcor UK Limited, P O Box 17, Folly Lane, Warrington, Cheshire, WA5 0NP, England
Telephone: +44 (0)1925 654321 Fax: +44 (0)1925 414588 Email: post@clarcoruk.com www.clarcoruk.com

Clarcor UK Ltd reserve the right to change the design or specifications without notice

BDC - ISS 1 - 06/04.

www.uasinc.com