

Unimaster® Dust Collectors



Unimaster®

Filtration Engineered for Performance

The Unimaster® dust collector from Donaldson® Torit® is designed to maximize dust collection and the life of collector components for years of extended service. In production for over 40 years with hundreds of thousands in use worldwide, the Unimaster collector's compact design and quiet operation is an industry success. Yet, Donaldson Torit is continually improving the Unimaster to ensure that it provides efficient, trouble-free service.

A self-contained collector with everything needed to begin collecting dust, the Unimaster comes complete with fan and fan motor, automatic shaker and shaker motor, and system controller making installation quick and easy. Since the automatic shaker cleans the filter bags, there is no need for expensive compressed air. Ideal for intermittent operations in plant processes, the Unimaster can be used as a central system or at the point of dust generation.

*40 Years
of Proven Performance*

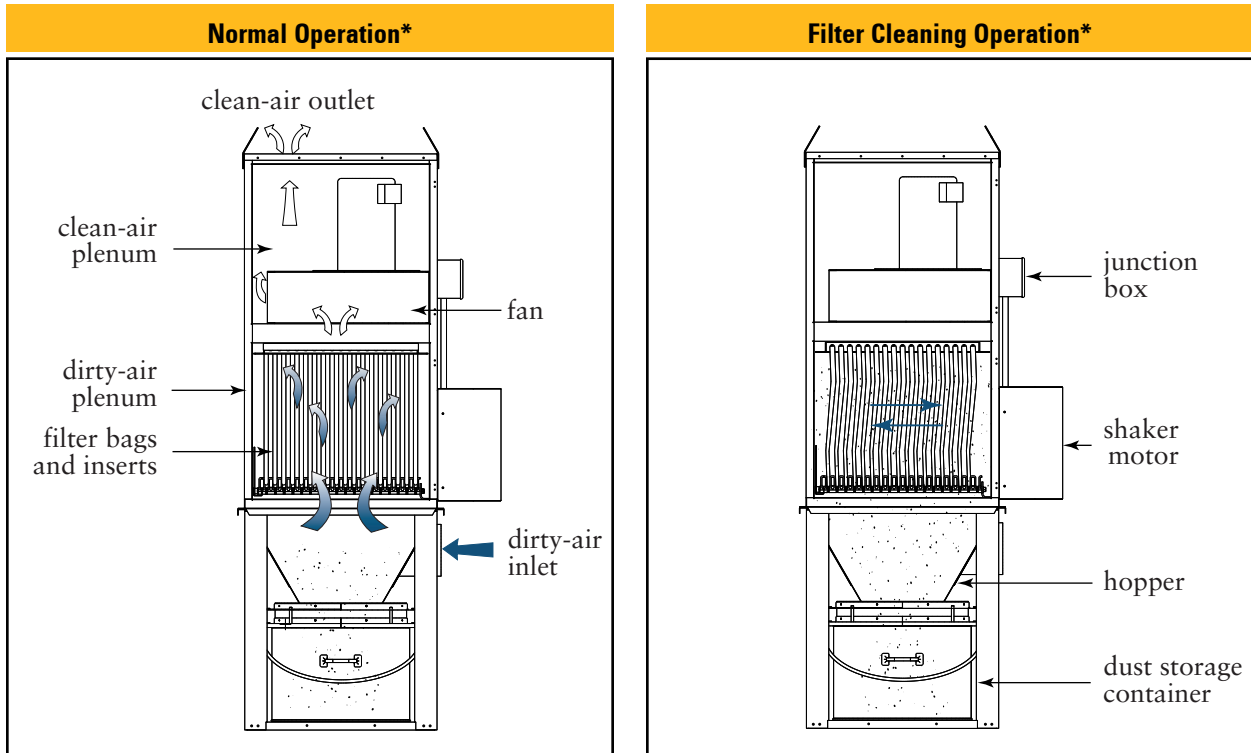
Unimaster Offers:

- **Compact design** Minimizes floor space and fits in virtually any plant layout.
- **Versatility** Three configurations to suit a variety of dust collection applications.
- **Broad range** Offering maximum air handling capacity in a compact design, the Unimaster offers filtration media area from 40 to 750 square feet.
- **Quiet & efficient operation** Motors and fan are enclosed in collector housing to minimize noise.
- **Easy maintenance**
- **10-year warranty**



UMA 100

Sizes & Operations

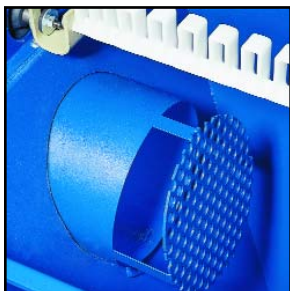


* Doors not shown on unit for illustrative purposes.

Unimaster Performance

- **Perforated inlet deflector** knocks down larger particles into the hopper reducing bag abrasion and increasing filter bag life.
- **Quick-release lever** allows for easy removal and maintenance of bin.
- **Heavy-duty flexible metal coils** inserted into filter bags keeps bags open to maximize airflow and assist in knocking dust off during cleaning cycle.
- **Bag-release levers** allow for easy removal of bags.

Perforated Inlet Deflector



Quick-Release Lever



Heavy-Duty Flexible Metal Coils

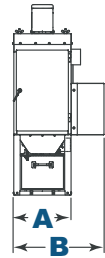


Bag-Release Levers

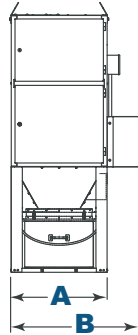


Dimensions & Specifications

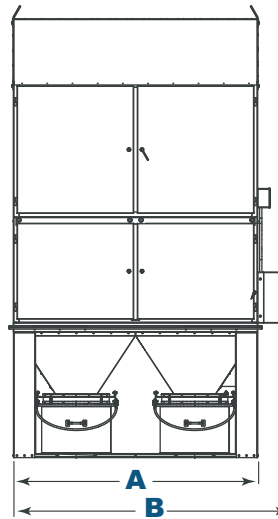
HOPPER BASE



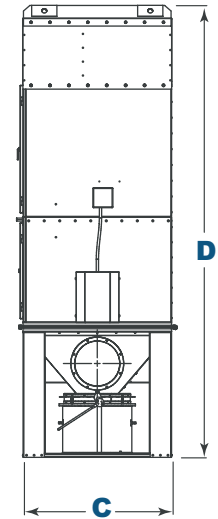
Front View
UMA 40 Shown



Front View
UMA 70-250 (UMA 70 Shown)

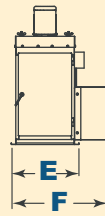


Front View
UMA 450-750 (750 Shown)

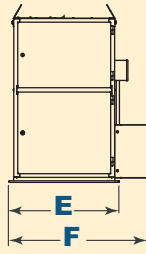


Right Side View
UMA 450-750 (750 Shown)

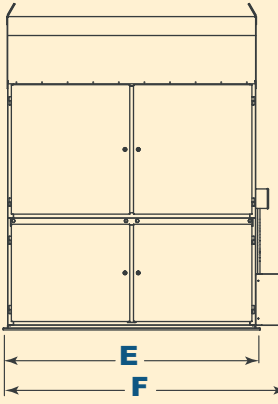
BIN VENT BASE (H-TYPE)



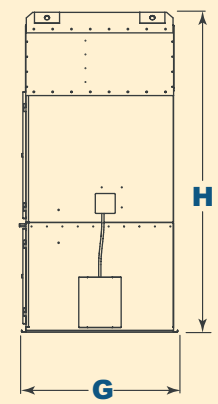
Front View
UMA 40 Shown



Front View
UMA 70-250 (UMA 70 Shown)

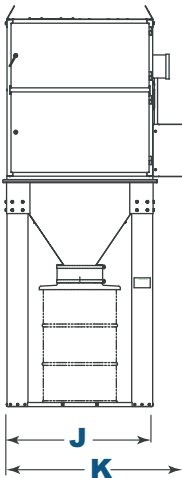


Front View
UMA 450-750 (750 Shown)

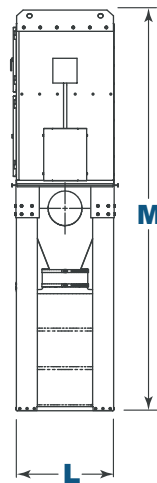


Right Side View
UMA 450-750 (750 Shown)

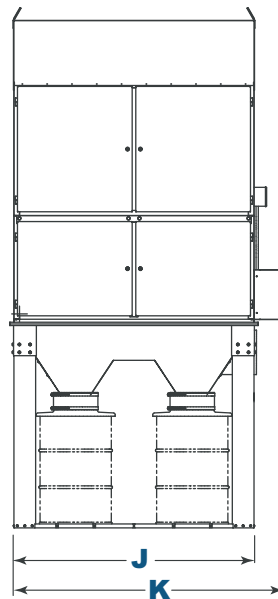
55-GALLON DRUM BASE



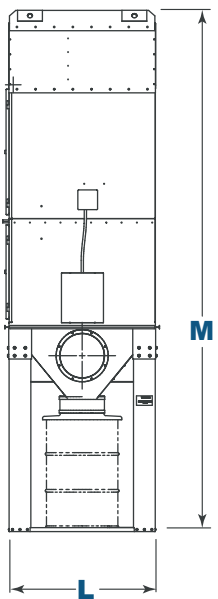
Front View
UMA 150-250 (UMA 150 Shown)



Side View
UMA 150-250 (UMA 150 Shown)



Front View
UMA 450-750 (750 Shown)



Right Side View
UMA 450-750 (750 Shown)

Dimensions & Specifications

Model	Nominal Airflow Range* (cfm)	Cloth Area (ft ²)	No of Filter Bags	No of Bins/Drums**	Inlet Diameter (in)	Shipping Weight (lbs)		
						Hopper Base	Bin Vent Base	55-Gallon Drum Base
40	120-400	40	1	1	4	250	260	N/A
70	200-525	70	1	1	4	230	450	N/A
100	200-1,000	100	1	1	8	440	600	N/A
150	450-2,000	150	1	1	8	500	800	850
250	450-3,000	244	1	1	10	670	1155	1265
450	1,350-5,000	450	2	2	12	1015	1375	1410
750	2,000-10,000	750	2	2	14	2000	2500	2600

* Based on clean filter.

** UMA 40 uses one 0.75 cu ft bin; UMA 70 uses one 2 or 3 cu ft bin (for 3 cu ft bin, add 9-in to height); UMA 100-250 uses one 3 cu ft bin; and UMA 450-750 uses two 3 cu ft bins.

55-gallon drum base available on UMA 150-750. UMA 150-250 uses one drum and UMA 450-750 uses two drums (drums not included).

Model	Dimensions (inches)											
	A	B	C	D	E	F	G	H	J	K	L	M
40	17.6	27.6	17.6	61.2	20.3	27.9	20.3	41.5	N/A	N/A	N/A	N/A
70	22.6	32.7	22.6	88.8	25.4	33.8	25.4	49.5	N/A	N/A	N/A	N/A
100	30.1	40.2	22.6	84.2	32.9	43.0	25.4	50.8	N/A	N/A	N/A	N/A
150	30.1	40.2	30.1	94.5	32.9	43.0	32.9	59.8	32.9	41.6	30.3	121.0
250	45.1	55.1	30.1	105.2	47.8	57.9	32.9	62.2	47.8	56.6	32.9	121.3
450	59.8	69.8	38.1	126.8	62.4	72.5	40.8	84.3	59.8	69.8	41.1	152.8
750	76.3	86.5	47.4	141.0	79.6	89.6	49.3	100.4	76.2	86.5	49.3	165.2

UMA Weighted Sound Pressure Levels

Model	40	70	100	150	250	450	750
With acoustic diffuser* dB(A)	71	70	71	74	74	82	79
Without acoustic diffuser dB(A)	78	N/A**	N/A**	N/A**	N/A**	N/A**	N/A**

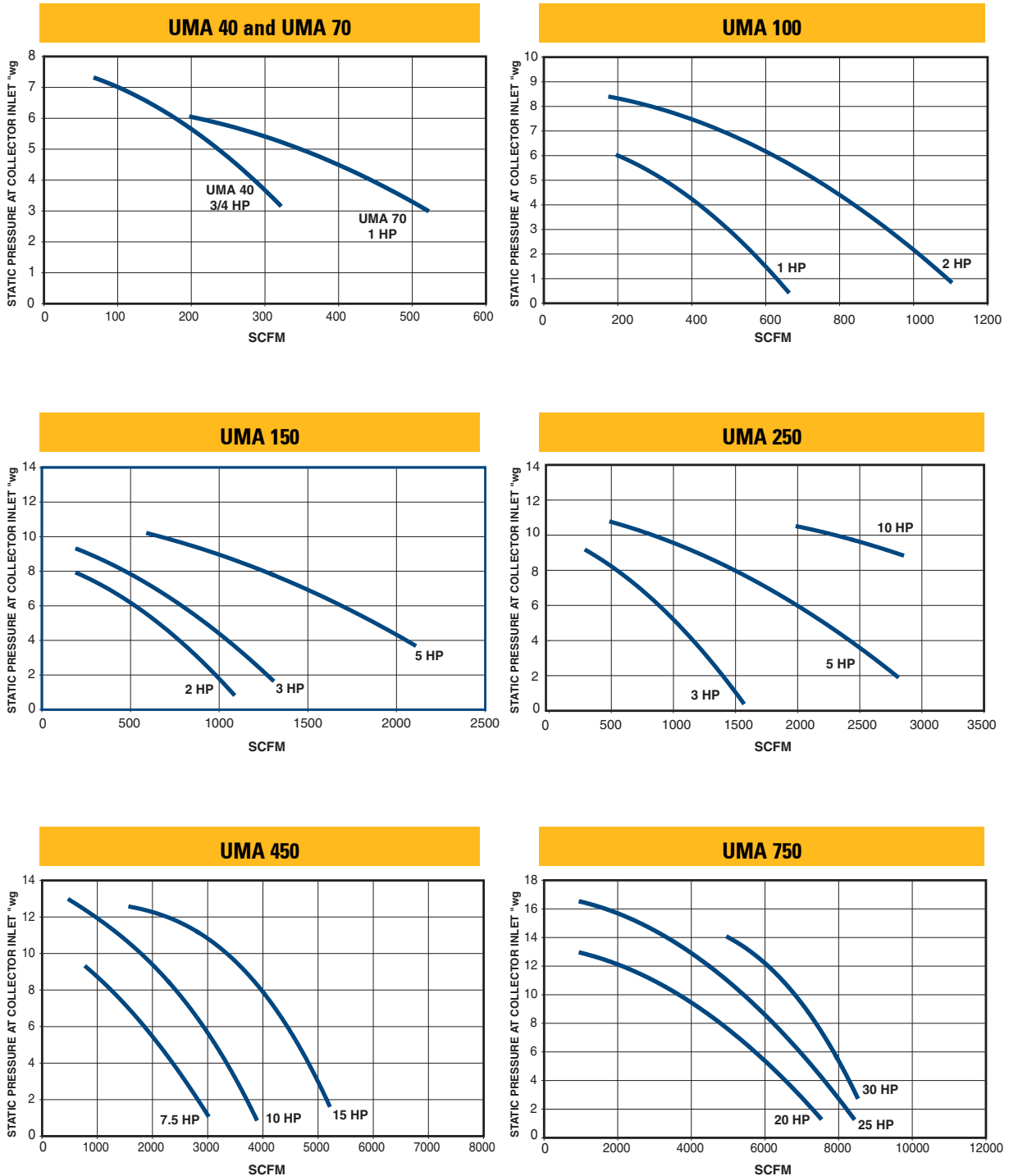
Above dB(A) sound levels are an average of measurements taken in a normal industrial area. Sound levels were taken in accordance with Reference Standard ISO 3746:1995, Survey Method, Grade 3. Installed sound levels may vary depending upon measurement location, operating conditions, and installations.

* Sound ratings on UMA 40, 70, 80, 150 and 450 are with the largest available fan. UMA 250 sound rating is with 5 HP K7 fan. UMA 750 sound rating is estimated for the 30 hp TBI fan. For specific fan models, contact Donaldson Torit.

** Acoustic diffuser (silencer) is standard on UMA 70, 100, 150, 250, 450 and 750.

Performance Selections

Flexible Power Offerings The Unimaster offers a variety of power packs to better meet your precise needs. The system performance graphs below show available static performance at the collector inlet with clean filters.



Standard Features & Equipment Options

	Standard	Optional		Standard	Optional
Collector Design					
Integral Fan and Fan Motor	X				
Integral TENV Shaker Motor	X				
Acoustic Diffuser Silencer (70-750)	X				
Acoustic Diffuser Silencer (40)		X			
Caster Pack		X			
Weatherhood (Weatherbend)		X			
Various Inlet Locations		X			
Filter Bags					
8 oz. Polyester One-Piece Filter Bags	X				
Anti-Static Filter Bags		X			
Variety of Bag Media Options		X			
Paint System					
Blue Powder Coat Finish (inside and out) Meets 350-Hour Spray Corrosion Protection Test	X				
Custom Color		X			
Hopper Discharge					
Bin Base with Quick Release Lever					X
55-Gallon Drum Base					X
Bin Vent Base					X
Electrical Controls, Gauges and Enclosures					
Push-Button Controls			X		
Solid-State Timer in Type (NEMA /UL) 12 Enclosure			X		
Motor Starter			X		
Magnehelic®* Gauge					X
Safety Features					
Explosion Vents					X
Sprinkler Taps					X
Warranty					
10-Year Warranty			X		

* Magnehelic is a registered trademark of Dwyer Instruments, Inc.

Information contained in this document is subject to change without notice.

Donaldson® Torit® Look to Donaldson Torit 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 Torit has been the leading innovator of air filtration solutions that make manufacturing plants a cleaner environment for employees the world over. Driven by an unwavering commitment to customer support, Donaldson Torit 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 Torit has the solution. The expanse of Donaldson Torit's innovative product line is unmatched, offering unparalleled filtration systems, ancillary parts and replacement filters. From central, source and ambient systems to baghouse, envelope and cartridge technologies, Donaldson Torit has the expertise to provide filtration solutions for virtually any application.

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

Built for Performance Genuine Donaldson Torit replacement filters and parts can significantly improve the performance of your collectors. With hundreds of varieties to choose from and all in-stock orders shipped within 48 hours, Donaldson Torit is your best, most reliable source for premium performance replacement parts. Visit us at www.donaldsondynamic.com.

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 Torit.



Donaldson

Filtration Solutions

Donaldson Company, Inc.
Industrial Air Filtration
P.O. Box 1299
Minneapolis, MN
55440-1299 U.S.A.

Tel 800.365.1331 (USA)
Tel 800.343.3639 (within Mexico)
dustmktg@mail.donaldson.com
www.donaldsontorit.com



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