Donaldson. Torit

UNIMASTER® DUST COLLECTORS



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 bag filters, 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.

The Unimaster Features:

- 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.

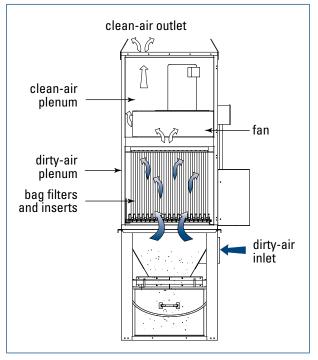
- EASY MAINTENANCE
- 10-YEAR WARRANTY



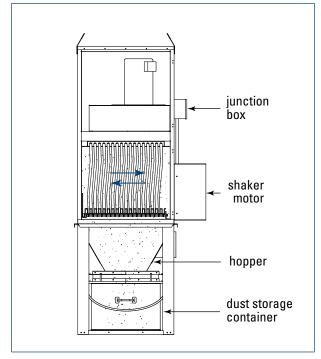


UNIMASTER® DUST COLLECTORS

SIZES & OPERATIONS



Normal Operation*



Filter Cleaning Operation*

Unimaster Performance:

- PERFORATED INLET DEFLECTOR
 Knocks down larger particles into the
 - Knocks down larger particles into the hopper reducing bag abrasion and increasing bag filter life.
- QUICK-RELEASE LEVER
 Allows for easy removal and maintenance of bin.



Perforated Inlet Deflector



Quick-Release Lever

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.



Heavy-Duty Flexible Metal Coils



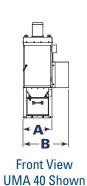
Bag-Release Levers

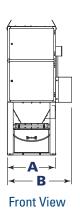
^{*} Doors not shown on unit for illustrative purposes.

UNIMASTER® DUST COLLECTORS

DIMENSIONS & SPECIFICATIONS

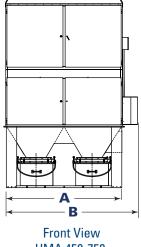
HOPPER BASE

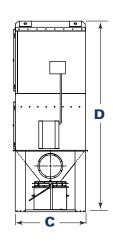




UMA 70-250

(UMA 70 Shown)

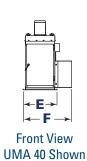


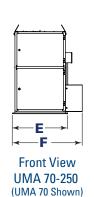


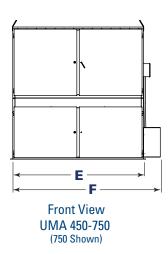
UMA 450-750 (750 Shown)

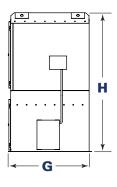
Right Side View UMA 450-750 (750 Shown)

BIN VENT BASE (H-TYPE)



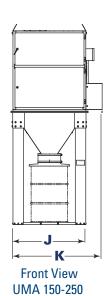




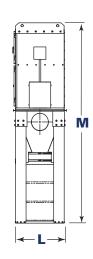


Right Side View UMA 450-750 (750 Shown)

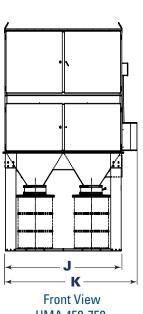
55-GALLON DRUM BASE



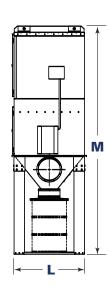
(UMA 150 Shown)



Side View UMA 150-250 (UMA 150 Shown)



UMA 450-750 (750 Shown)



Right Side View UMA 450-750 (750 Shown)

UNIMASTER® DUST COLLECTORS

DIMENSIONS & SPECIFICATIONS

	Nominal Cloth			Inlet	Shipping Weight (lbs)			
Model	Airflow Range** (cfm)	Area (ft²)	No. of Bag Filters	No. of Diame	Diameter (in)	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	450	320	N/A
100	200-1,000	100	1	1	8	600	440	N/A
150	450-2,000	150	1	1	8	800	600	875
250	450-3,000	244	1	1	10	1,155	700	1,265
450	1,350-5,000	444	2	2	12	1,840	1,415	1,830
750	2,000-10,000	750	2	2	14	2,355	1,800	2,345

^{*} 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).

	Dimensions (inches)											
Model	А	В	С	D	Е	F	G	Н	J	K	L	M
40	17.6	27.6	17.6	61.2	20.3	28.9	20.3	41.5	N/A	N/A	N/A	N/A
70	23.2	32.7	28.7	79.3	25.4	33.8	25.4	49.5	N/A	N/A	N/A	N/A
100	32.8	41.2	28.8	83.8	32.3	41.2	25.4	49.5	N/A	N/A	N/A	N/A
150	32.3	41.2	36.4	94.0	32.3	41.2	32.9	59.8	32.9	41.6	30.3	121.0
250	32.7	56.2	36.4	104.8	32.3	56.2	32.9	62.2	47.8	56.6	32.9	121.3
450	60.5	71.7	44.3	121.1	63.0	71.6	40.9	80.6	59.8	70.1	38.1	148.4
750	76.5	88.3	52.1	125.4	79.6	88.3	49.1	85.3	76.2	86.5	47.4	150.2

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.

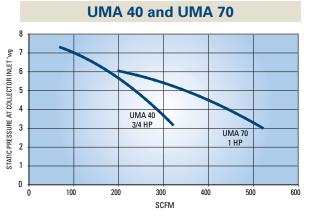
^{*} Sound ratings on UMA 40, 70, 80, 150 and 450 are with the largest available fan. UMA 250 sound rating is with 5 HP K7 fan. UMA 750 sound rating is estimated for the 30 hp TBI fan. For specific fan models, contact Donaldson Torit.

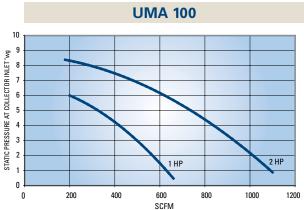
^{**} Acoustic diffuser (silencer) is standard on UMA 70, 100, 150, 250, 450 and 750.

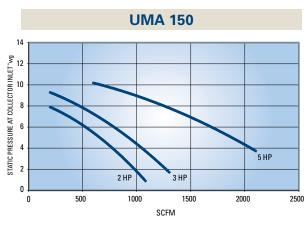
PERFORMANCE SELECTIONS

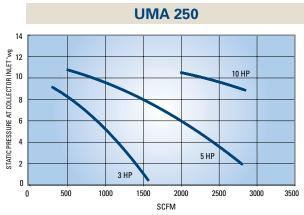
FLEXIBLE POWER OFFERINGS

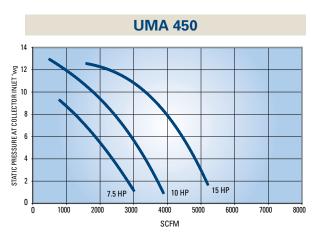
The Unimaster offers a variety of power packs to better meet your precise needs. The system performance graphs below show available static performance at the collector inlet with clean filters.

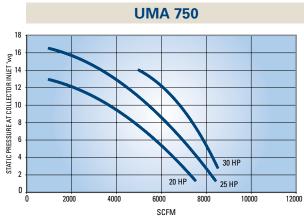












STANDARD FEATURES & AVAILABLE OPTIONS

Collector Design	Std	Opt
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 (weather bend) Roof		X
Various Inlet Locations		X
Bag Filters		
8 oz. Polyester One-Piece Bag Filters	X	
Anti-Static Bag Filters		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	Std	Opt			
Bin Base with Quick Release Lever		X			
55-Gallon Drum Base		X			
Bin Vent Base					
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				

- $^{\ast}\,$ All 60 Hz motors 1 HP and above are compliant with EISA.
- ** Magnehelic is a registered trademark of Dwyer Instruments, Inc.

PROVEN PERFORMANCE ON HUNDREDS OF APPLICATIONS

UMA 450 filtering plastic from a CNC machine





UMA 250 on a school wood shop application

Donaldson. **Torit**®



GLOBAL SUPPORT



- Facilities in 37 countries
- 40 manufacturing plants and 14 distribution centers
- Sales offices worldwide

LEADING TECHNOLOGY



- Over 1,000 engineers and scientists worldwide
- Broad range of innovative collectors and filters
- 100s of filter media formulations

EXPERIENCE & SERVICE



- Technical expertise and support
- Ready-to-ship filters and parts within 24 hours
- 1,000,000+ dust, fume, and mist collectors installed



Call Donaldson Torit to get Cleaner Air today 800-365-1331 donaldsontorit.com



Donaldson Company, Inc. Torit PO Box 1299

Minneapolis, MN 55440-1299 U.S.A. Tel 800-365-1331 (USA)

800-343-3639 (within Mexico)

donaldsontorit@donaldson.com donaldsontorit.com

Unimaster Brochure (04/11)

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