

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

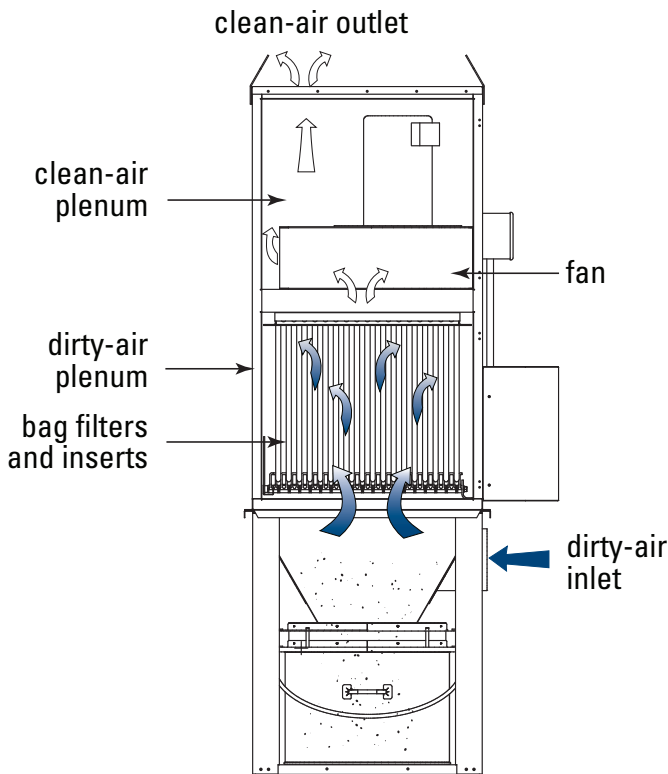
10-YEAR WARRANTY

40 YEARS
OF
PROVEN
PERFORMANCE

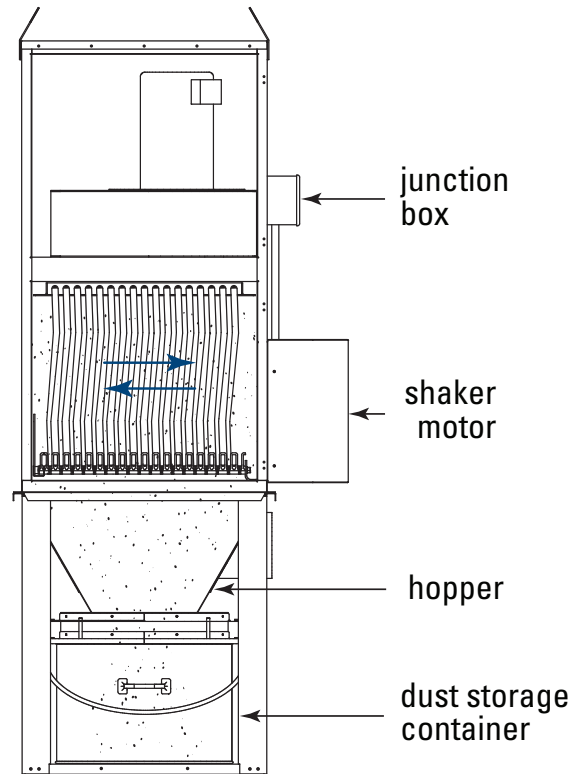


UMA 100

SIZES & OPERATIONS



Normal Operation*



Filter Cleaning Operation*

* 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 bag filter life

QUICK-RELEASE LEVER

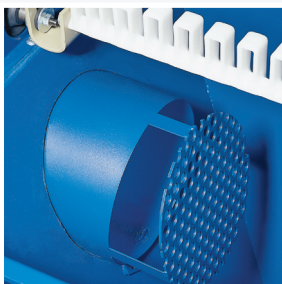
Allows for easy removal and maintenance of bin

HEAVY-DUTY FLEXIBLE METAL COILS

Inserted into filter bags keeps bags open to maximize airflow & assist in knocking dust off during cleaning cycle

BAG-RELEASE LEVERS

Allow for easy removal of bags



Perforated Inlet Deflector



Quick-Release Lever



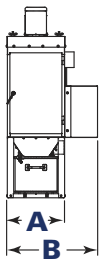
Heavy-Duty Flexible Metal Coils



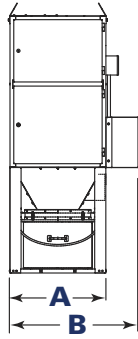
Bag-Release Levers

DIMENSIONS & SPECIFICATIONS

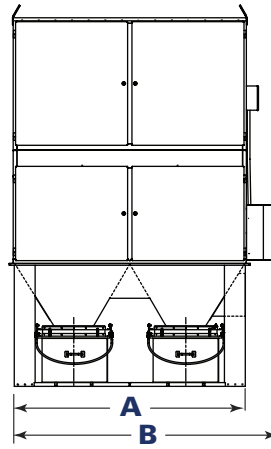
HOPPER BASE



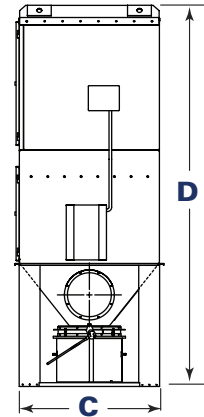
Front View
UMA 40 Shown



Front View
UMA 70-250
(UMA 70 Shown)

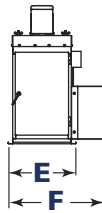


Front View
UMA 450-750
(750 Shown)

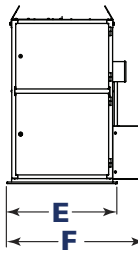


Right Side View
UMA 450-750
(750 Shown)

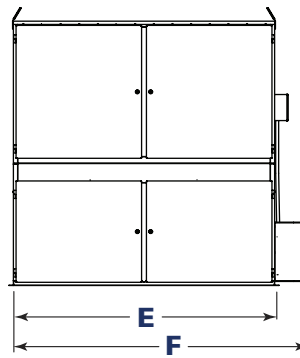
BIN VENT BASE (H-TYPE)



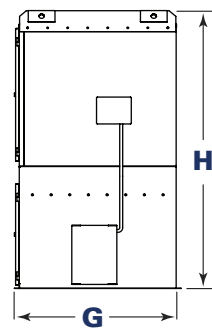
Front View
UMA 40 Shown



Front View
UMA 70-250
(UMA 70 Shown)

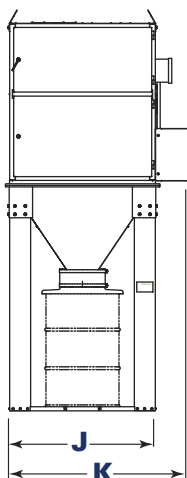


Front View
UMA 450-750
(750 Shown)

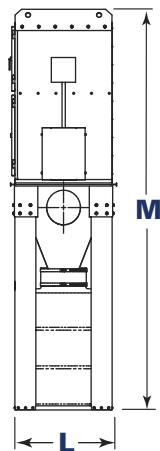


Right Side View
UMA 450-750
(750 Shown)

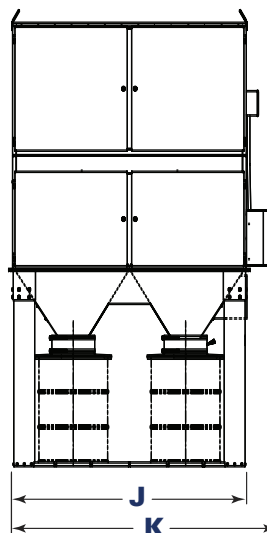
55-GALLON DRUM BASE



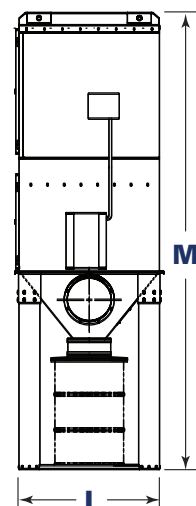
Front View
UMA 150-250
(UMA 150 Shown)



Side View
UMA 150-250
(UMA 150 Shown)



Front View
UMA 450-750
(750 Shown)



Right Side View
UMA 450-750
(750 Shown)

Model	Nominal Airflow Range**		Cloth Area		No. of Bag Filters	No. of Bins/ Drums**	Inlet Diameter		Shipping Weight					
	cfm	m³/h	ft²	m²			Hopper Base		Bin Vent Base		55-Gallon Drum Base			
							lb	kg	lb	kg	lb	kg		
40	120-400	204-679	40	3.7	1	1	4	101.6	250	113.4	260	117.9	N/A	N/A
70	200-525	340-892	70	6.5	1	1	4	101.6	450	204.1	320	145.1	N/A	N/A
100	200-1,000	340-1,699	100	9.3	1	1	8	203.2	600	272.2	440	199.6	N/A	N/A
150	450-2,000	764-3,397	150	13.9	1	1	8	203.2	800	362.9	600	272.2	875	396.9
250	450-3,000	764-5,096	244	22.7	1	1	10	254.0	1,155	523.9	700	317.5	1,265	573.8
450	1,350-5,000	2,293-8,493	444	41.2	2	2	12	304.8	1,840	834.6	1,415	641.8	1,830	830.1
750	2,000-10,000	3,397-16,987	750	69.7	2	2	14	355.6	2,355	1,068.2	1,800	816.5	2,345	1,063.7

* 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																								
	A		B		C		D		E		F		G		H		J		K		L		M		
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
40	17.6	447.0	27.6	701.0	17.6	447.0	61.2	1554.5	20.3	515.6	28.9	734.1	20.3	515.6	41.5	1054.1	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
70	23.2	589.3	32.7	830.6	28.7	729.0	79.3	2014.2	25.4	645.2	33.8	858.5	25.4	645.2	49.5	1257.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
100	32.8	833.1	41.2	1046.5	28.8	731.5	83.8	2128.5	32.3	820.4	41.2	1046.5	25.4	645.2	49.5	1257.3	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
150	32.3	820.4	41.2	1046.5	36.4	924.6	94.0	2387.6	32.3	820.4	41.2	1046.5	32.9	835.7	59.8	1518.9	32.9	835.7	41.6	1056.6	30.3	769.6	121.0	3073.4	
250	32.7	830.6	56.2	1427.5	36.4	924.6	104.8	2661.9	32.3	820.4	56.2	1427.5	32.9	835.7	62.2	1579.9	47.8	1214.1	56.6	1437.6	32.9	835.7	121.3	3081.0	
450	60.5	1536.7	71.7	1821.2	44.3	1125.2	121.1	3075.9	63.0	1600.2	71.6	1818.6	40.9	1038.9	80.6	2047.2	59.8	1518.9	70.1	1780.5	38.1	967.7	148.4	3769.4	
750	76.5	1943.1	88.3	2242.8	52.1	1323.3	125.4	3185.2	79.6	2021.8	88.3	2242.8	49.1	1247.1	85.3	2166.6	76.2	1935.5	86.5	2197.1	47.4	1204.0	150.2	3815.1	

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.

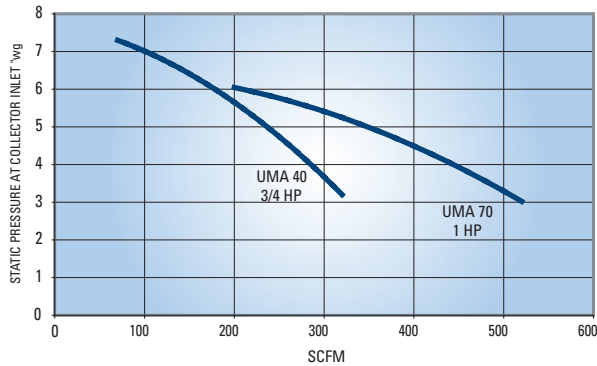
** Acoustic diffuser (silencer) is standard on UMA 70, 100, 150, 250, 450 and 750.

PERFORMANCE SELECTIONS

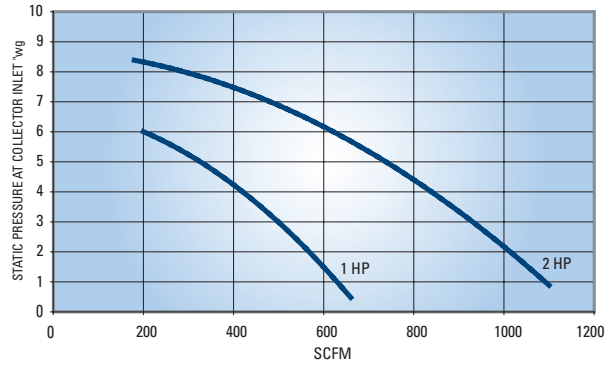
FLEXIBLE POWER OFFERINGS

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.

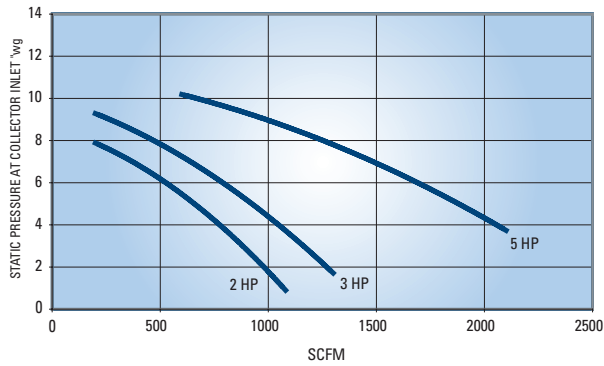
UMA 40 and UMA 70



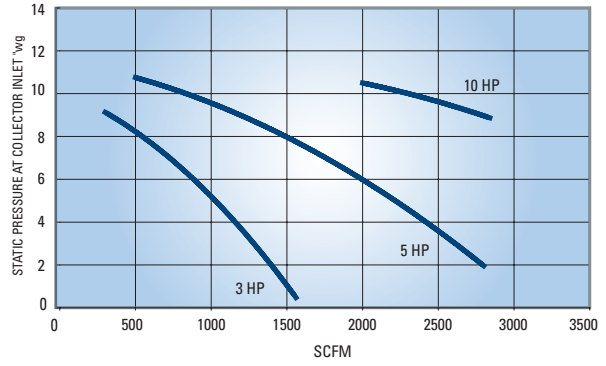
UMA 100



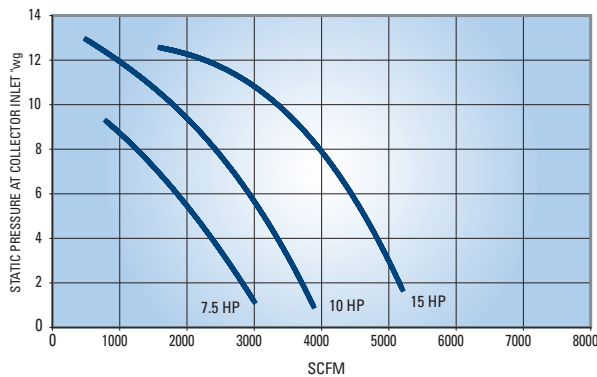
UMA 150



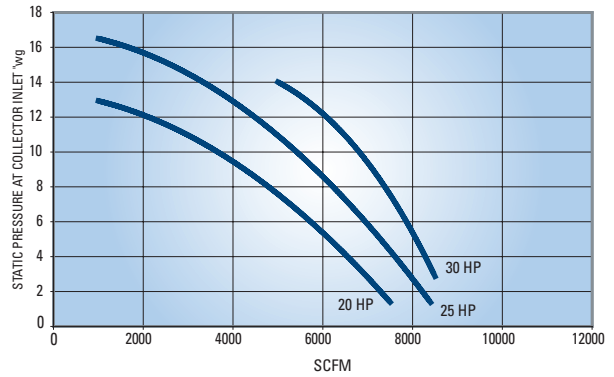
UMA 250



UMA 450



UMA 750



STANDARD FEATURES & AVAILABLE OPTIONS

Collector Design	Std	Opt
Integral Fan and Fan Motor*	✓	
Integral TENV Shaker Motor*	✓	
Acoustic Diffuser Silencer (70-750)	✓	
Acoustic Diffuser Silencer (40)		✓
Caster Pack		✓
Weatherhood (weather bend) Roof		✓
Various Inlet Locations		✓
Bag Filters		
8 oz. (226.8 g) Polyester One-Piece Bag Filters	✓	
Anti-Static Bag Filters		✓
Variety of Bag Media Options		✓
Paint System		
Textured Multi-Coat Paint Finish with 2,000-Hour Salt Spray Performance	✓	
Custom Color		✓

Hopper Discharge	Std	Opt
Bin Base with Quick Release Lever		✓
55-Gallon (208.2-Liter) Drum Base		✓
Bin Vent Base		✓
Electrical Controls, Gauges and Enclosures		
Push-Button Controls	✓	
Solid-State Timer in Type (NEMA /UL) 12 Enclosure	✓	
Motor Starter	✓	
Magnehelic®** Gauge		✓
Safety Features		
Explosion Vents		✓
Sprinkler Taps		✓
Warranty		
10-Year Warranty	✓	

* 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

Global Support

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

Leading Technology

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

Experience and 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



Tel 800-365-1331 (USA)
Tel 800-343-3639 (within Mexico)
donaldsonorit@donaldson.com
donaldsonorit.com

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

EXACTLY WHAT YOU NEED.™

Unimaster Dust Collector Brochure (06/12)
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