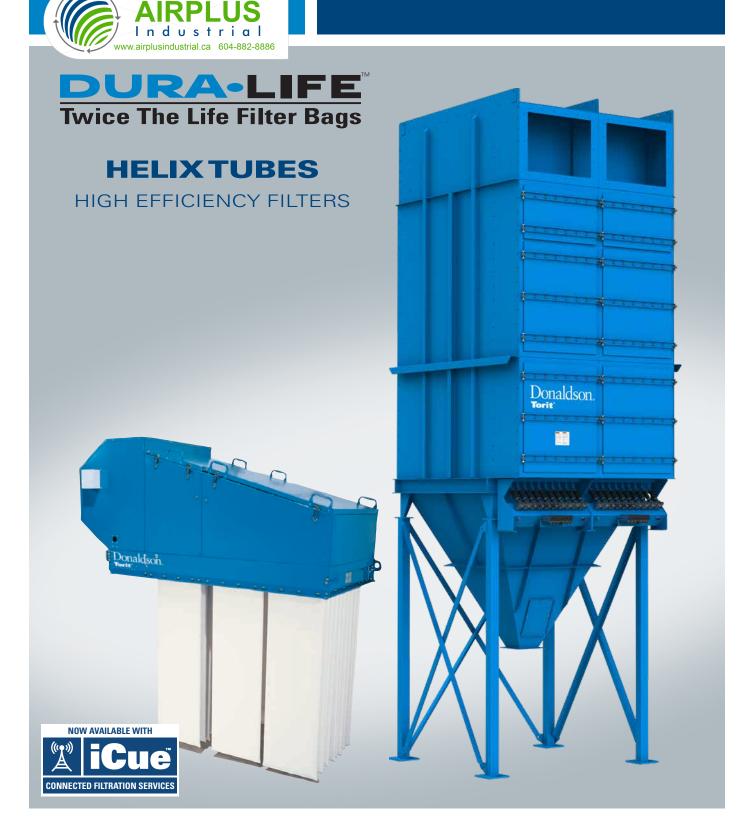


DALAMATIC[®] DUST COLLECTORS



PROVEN PERFORMANCE, COMPACT DESIGN

The versatile Donaldson[®] Torit[®] Dalamatic series of dust collectors deliver a powerful solution for nearly any dust filtration application. These collectors come in two models: the Dalamatic Cased (DLMC) is a stand alone collector that can be ducted to many different applications; the Dalamatic Insertable (DLMV) is a versatile collector that can be inserted into various applications, such as bins, silos, bunkers, storage vessels or transfer points. Both models are continuous-duty dust collectors designed to handle the most difficult product recovery applications.

THE DALAMATIC FEATURES:

CONTINUOUS COLLECTION

• Provides continuous filtration of high dust concentrations at high filtration velocities and constant levels of resistance in almost any industry and application

COMPACT DESIGN

 Unique modular design allows for installation in the most space restricted areas. Envelope-shaped bags maximize the amount of media in a given space and allow for increased space between bags, minimizing the chances of bridging

DURA-LIFE[™] BAG FILTERS

• Provide better surface loading and better pulse cleaning reducing maintenance and operating costs

HELIX TUBE FILTERS

• Spunbond polyester media laminated with an ePTFE membrane for even greater filtration efficiency

VERSATILITY

• A full range of sizes and types of bags are available for a wide variety of dust collection applications

10-YEAR WARRANTY





DLMC 3/7/15

iCUE[®] CONNECTED FILTRATION SERVICE

Now available with the option of Donaldson's iCue connected filtration service, an IoT enabled service designed to prompt timely maintenance, helping improve production uptime and reduce operating costs.

FLEXIBLE, EFFECTIVE FILTER MEDIA

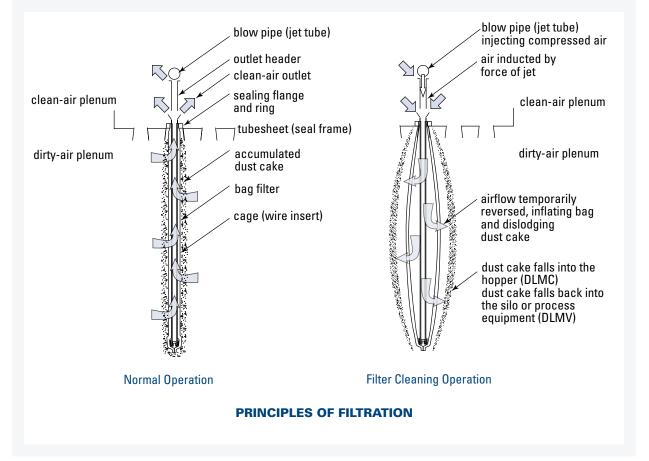
UNIQUE BAG DESIGN

The Dalamatic advantage is found in the breakthrough technology of Dura-Life bag filters in an envelope shape. The envelope shape provides greater movement of the bag to dislodge more challenging dust cakes during filter pulsing.

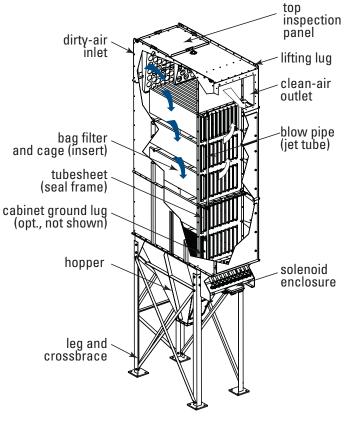
- Dust accumulates on the outer surface of the filter bag as air penetrates the media
- The blowpipe (jet tube) injects a burst of compressed air into the bag filter
- Airflow is then briefly reversed, inflating the bag filter and dislodging dust
- The dislodged dust cake falls into the collection hopper for final removal or directly back in the process. The envelope-shaped bag filter, which is mounted on a unique wire frame, ensures optimum airflow and thorough cleaning



DLMV 45/15



SIZES & OPERATIONS



Normal Operation for Models DLMC

clean-air plenum mounting flange blow pipe (jet tube) blow pipe (jet tube) blow pipe b

DALAMATIC CASED (DLMC)

- Envelope-shaped bags provide maximum filter area per given space and ensure efficient cleaning
- Air volumes range from 1500 to 85,000 cfm (2,548 to 144,385 m³/h)
- Modular design gives dimensional and capacity flexibility
- Downward airflow pattern minimizes dust re-entrainment
- Side doors provide easy, clean side access to filters
- Standard leg pack meets IBC 2009 requirements

DALAMATIC INSERTABLE (DLMV)

- Five configurations to suit most process applications
- Uses positive pressure of the conveying air or can be fan powered for pneumatic conveying applications
- Bags can be installed hanging vertically, horizontally or any angle in between
- Can be inserted into hood enclosures at belt transfer points, bucket elevator casings, ribbon blenders and receiving hoppers for clamshell unloaders
- Insertable approach reduces or eliminates ducting costs; minimized ducting can also result in reduced energy costs

TWO BREAKTHROUGH FILTER OPTIONS FOR YOUR DALAMATICS

DURA-LIFE FILTER BAGS PROVIDE TWICE THE LIFE OVER STANDARD 16 OZ. POLYESTER BAGS

Traditional 16 oz. polyester bags are produced via a needling process that creates larger pores where dust can embed into the fabric, inhibiting cleaning and reducing bag life. Dura-Life bags are engineered with a unique hydroentanglement process that uses water jets to blend the fibers. This process creates a felt with smaller pores which keeps more dust on the surface of the filter, resulting in better pulse cleaning and longer bag life.

DURA-LIFE BENEFITS

- Two to three times longer bag life
- Energy savings due to lower pressure drop
- Reduced replacement bag and maintenance costs due to longer bag life



HELIX TUBES PROVIDE LONGER LIFE AND REDUCED EMISSIONS

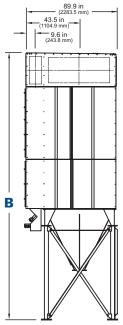
Donaldson Torit helix tubes are constructed of spunbond polyester media laminated with an ePTFE membrane. This combination is more efficient at capturing submicron dust particles. In addition, helix tubes keep dust on the surface of the media which makes pulse cleaning more effective — resulting in a lower average pressure drop, reduced pulse cleaning and longer life.

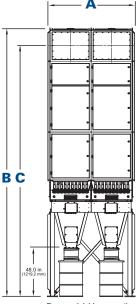
HELIX TUBE BENEFITS

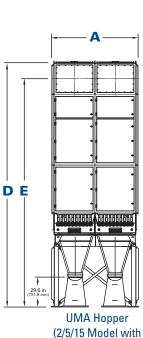
- · Reduced emissions compared to felt bags
- Up to two times longer filter life
- Energy savings due to lower pressure drop
- Reduced maintenance and downtime costs
- Reduced compressed air costs



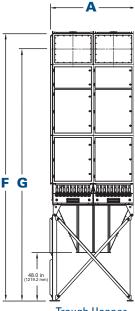
CASED DIMENSIONS & SPECIFICATIONS







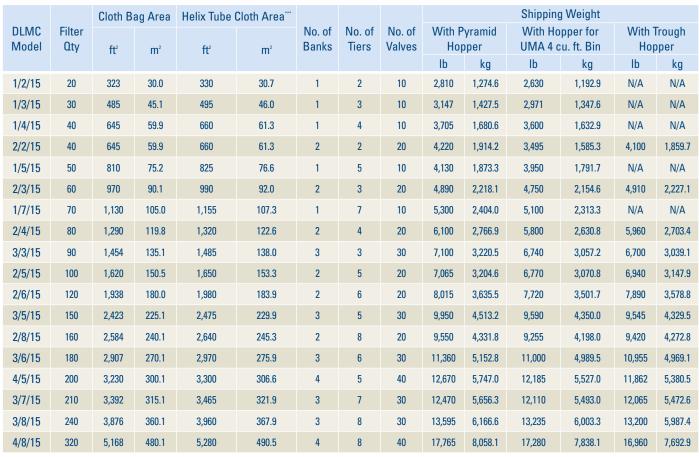
4 cu. ft. Bins)



Trough Hopper (2/5/15 Model)

Side View Pyramid Hopper (2/5/15 Model)

Pyramid Hopper* (2/5/15 Model)



* With optional 55-Gallon drum adapter (drum not included).

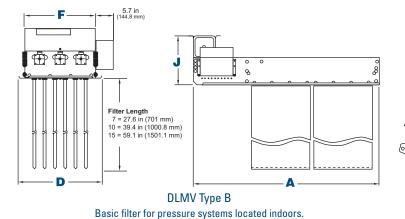
** Based on clean filters.

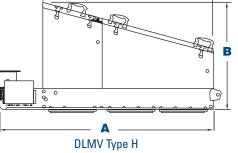
*** Filter area for Helix Tubes is based on a 1.25 meter helix tube5 Donaldson Torit

	Dimensions														
DLMC	Pyra				amid			U	AN		Trough				
Model	А			В		С		D		E		F		G	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	
1/2/15	45.5	1,155.7	175.7	4,462.8	162.7	4,132.6	151.9	3,858.3	138.9	3,528.1	N/A	N/A	N/A	N/A	
1/3/15	45.5	1,155.7	198.5	5,041.9	185.5	4,711.7	174.7	4,437.4	161.7	4,107.2	N/A	N/A	N/A	N/A	
1/4/15	45.5	1,155.7	238.2	6,050.3	216.8	5,506.7	214.4	5,445.8	193	4,902.2	N/A	N/A	N/A	N/A	
1/5/15	45.5	1,155.7	263	6,680.2	241.6	6,136.6	239.2	6,075.7	217.8	5,532.1	N/A	N/A	N/A	N/A	
1/7/15	45.5	1,155.7	308.7	7,841.0	287.3	7,297.4	284.9	7,236.5	263.5	6,692.9	N/A	N/A	N/A	N/A	
2/2/15	85.0	2,159.0	175.7	4,462.8	162.7	4,132.6	151.9	3,858.3	138.9	3,528.1	169.7	4,310.4	156.7	3,980.2	
2/3/15	85.0	2,159.0	198.5	5,041.9	185.5	4,711.7	174.7	4,437.4	161.7	4,107.2	192.5	4,889.5	179.5	4,559.3	
2/4/15	85.0	2,159.0	238.2	6,050.3	216.8	5,506.7	214.4	5,445.8	193	4,902.2	232.8	5,913.1	210.7	5,351.8	
2/5/15	85.0	2,159.0	263	6,680.2	241.6	6,136.6	239.2	6,075.7	217.8	5,532.1	257	6,527.8	235.6	5,984.2	
2/6/15	85.0	2,159.0	285.9	7,261.9	264.4	6,715.8	262.1	6,657.3	240.7	6,113.8	279.8	7,106.9	258.4	6,563.4	
2/8/15	85.0	2,159.0	331.5	8,420.1	310.1	7,876.5	307.7	7,815.6	286.3	7,272.0	325.5	8,267.7	304.1	7,724.1	
3/3/15	124.4	3,159.8	198.5	5,041.9	185.5	4,711.7	174.4	4,429.8	138.9	3,528.1	192.5	4,889.5	179.5	4,559.3	
3/5/15	124.4	3,159.8	263	6,680.2	241.6	6,136.6	239.2	6,075.7	217.8	5,532.1	257	6,527.8	235.6	5,984.2	
3/6/15	124.4	3,159.8	285.9	7,261.9	264.4	6,715.8	262.1	6,657.3	240.7	6,113.8	279.8	7,106.9	258.4	6,563.4	
3/7/15	124.4	3,159.8	308.7	7,841.0	287.3	7,297.4	284.9	7,236.5	263.5	6,692.9	302.7	7,688.6	281.2	7,142.5	
3/8/15	124.4	3,159.8	331.5	8,420.1	310.1	7,876.5	307.7	7,815.6	286.3	7,272.0	325.5	8,267.7	304.1	7,724.1	
4/5/15	166.4	4,226.6	263.1	6,682.7	241.6	6,136.6	239.2	6,075.7	217.8	5,532.1	257	6,527.8	235.6	5,984.2	
4/8/15	166.4	4,226.6	331.5	8,420.1	310.1	7,876.5	307.7	7,815.6	286.3	7,272.0	325.5	8,267.7	304.1	7,724.1	

DLMC Operating Conditions	Standard	Optional
Seismic Spectral Acceleration	$S_s = 1.5 \& S_1 = 0.6$	-
Wind Load Rating (mph/kph)	90/144.8	-
Housing Rating (inches of $H_2O/millimeters$ of H_2O)	0-20/0-508	21-45/533-1143
Compressed Air Required (psi/bar)	55-90/3.8-6.2	-

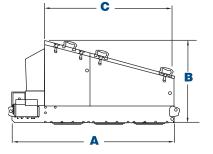
INSERTABLE DIMENSIONS & SPECIFICATIONS



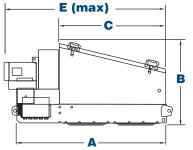


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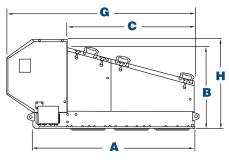
(Type B plus exit header) Filter with exit header for connection to a fan or discharge ducting. The filter is weatherproof and suitable for indoor and outdoor application.



DLMV Type W (Type H plus weather cowl) Filter with a weather cowl for pressure systems where the filter is located outdoors or exposed to adverse conditions.



DLMV Type F (Type H plus integral fan) Weatherproof filter fitted with an integral fan for negative pressure applications.



DLMV Type FAD (Type F plus acoustic diffuser) Weatherproof filter fitted with an integral fan and acoustic diffuser for quiet operation.

DLMV	No. of		Dimensions																
Model	No. of Banks		А	В		С		D		E		F		G		Н		J	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
4/7, 6/10, 9/15	6	38.3	972.8	36.8	934.7	33.8	858.5	27.5	698.5	43.1	1,094.7	29.1	739.1	57.4	1,458.0	43.3	1,099.8	14.7	373.4
7/7, 10/10, 15/15	10	38.3	972.8	36.8	934.7	33.8	858.5	43.3	1,099.8	43.1	1,094.7	39.8	1,010.9	57.4	1,458.0	43.3	1,099.8	14.7	373.4
8/7, 12/10, 18/15	12	62.2	1,579.9	36.8	934.7	44.5	1,130.3	27.6	701.0	64.0	1,625.6	29.1	739.1	71.6	1,818.6	43.3	1,099.8	15.7	398.8
14/7, 20/10	20	62.3	1,582.4	36.8	934.7	44.5	1,130.3	43.3	1,099.8	67.0	1,701.8	39.8	1,010.9	71.7	1,821.2	43.3	1,099.8	15.8	401.3
30/15	20	62.3	1,582.4	37.6	955.0	44.5	1,130.3	43.3	1,099.8	68.4	1,737.4	39.8	1,010.9	71.7	1,821.2	43.3	1,099.8	15.8	401.3
21/7, 30/10, 45/15	30	85.9	2,181.9	42.9	1,089.7	68.1	1,729.7	43.3	1,099.8	93.1	2,364.7	39.8	1,010.9	100.0	2,540.0	46.8	1,188.7	15.8	401.3
60/15	40	112.2	2,849.9	42.9	1,089.7	88.8	2,255.5	43.3	1,099.8	113.3	2,877.8	39.8	1,010.9	120.7	3,065.8	46.8	1,188.7	15.8	401.3

DIMU	Nominal Air	flow Range	514		oth Area		Tube Area	N (Shippiı	ng Weig	ght			
DLMV Model	cfm	m³/h	Filter Qty	fť	m²	fť	m²	No. of Valves	Fan	Motor (hp)		rpe B		pe 1		pe V		rpe F	Ty Fa	ype AD
	Unit	,									lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
4/7	215 - 555	365 - 943	6	43	4.0	55	5.1	3	F1	1	231	104.8	320	145.1	331	150.1	430	195.0	523	237.2
6/10	320 - 830	544 - 1,410	6	64	5.9	79	7.3	3	F1	1	251	113.9	340	154.2	351	159.2	450	204.1	543	246.3
7/7	375 - 975	637 - 1,656	10	75	7.0	92	8.5	5	F1 K3	1 2	353	160.1	474	215.0	485	220.0	584 595	264.9 269.9	688 699	312.1 317.1
8/7	430 - 1,115	730 - 1,894	12	86	8.0	110	10.3	3	F1 K3	1 2	375	170.1	518	235.0	529	240.0	628 640	284.9 290.3	727 739	329.8 335.2
9/15	485 - 1,260	824 - 2,140	6	97	9.0	118	11.0	3	F1 K3	1 2	273	123.8	362	164.2	373	169.2	472 483	214.1 219.1	565 576	256.3 261.3
10/10	540 - 1,400	917 - 2,378	10	108	10.0	132	12.3	5	F1 K3	1 2	386	175.1	507	230.0	519	235.4	617 628	279.9 284.9	721 732	327.0 332.0
12/10	645 - 1,675	1,096 - 2,845	12	129	12.0	158	14.7	3	K3 K5	2 3	414	187.8	558	253.1	569	258.1	679 712	308.0 323.0	778 811	352.9 367.9
14/7	750 - 1,950	1,274 - 3,312	20	150	13.9	184	17.1	5	K3 K5	2 3	606	274.9	794	360.2	805	365.1	915 948	415.0 430.0	1025 1058	464.9 479.9
15/15	805 - 2,090	1,367 - 3,550	10	161	15.0	197	18.3	5	K3 K5	2 3	423	191.9	545	247.2	556	252.2	666 699	302.1 317.1	770 803	349.3 364.2
18/15	970 - 2,520	1,648 - 4,281	12	194	18.0	236	21.9	3	K3 K5 K7	2 3 5	459	208.2	602	273.1	613	278.1	723 756 833	327.9 342.9 377.8	822 855 932	372.9 387.8 422.7
20/10	1,075 - 2,795	1,826 - 4,748	20	215	20.0	264	24.5	5	K3 K5 K7	2 3 5	672	304.8	860	390.1	871	395.1	981 1,014 1,091	445.0 459.9 494.9	1,091 1,124 1,201	494.9 509.8 544.8
21/7	1,130 - 2,935	1,919 - 4,986	30	226	21.0	276	25.6	10	K3 K5 K7	2 3 5	794	360.2	1,058	479.9	1,080	489.9	1,179 1,213 1,290	534.8 550.2 585.1	1,307 1,341 1,418	592.8 608.3 643.2
30/10	1,615 - 4,195	2,743 - 7,126	30	323	30.0	396	36.8	10	K5 K7 K10	3 5 7.5	893	405.1	1,157	524.8	1,179	534.8	1,312 1,389 1,561	595.1 630.0 708.1	1,440 1,517 1,689	653.2 88.1 766.1
30/15	1,615 - 4,195	2,743 - 7,126	20	323	30.0	394	36.6	10	K5 K7 K10	3 5 7.5	750	340.2	935	424.1	946	429.1	1,089 1,168 1,321	494.0 529.8 599.2	1,199 1,278 1,431	543.9 579.7 649.1
45/15	2,420 - 6,290	4,111 - 10,685	30	484	45.0	591	54.9	10	K7 K10 K11	5 7.5 10	1,003	455.0	1,268	575.2	1,290	585.1	1,499 1,671 1,758	679.9 758.0 797.4	1,627 1,799 1,886	738.0 816.0 855.5
60/15	3,230 - 8,395	5,487 - 14,260	40	646	60.0	788	73.2	10	K11	10	1,323	600.1	1,878	851.8	1,900	861.8	2,374	1,076.8	2,506	1,136.7

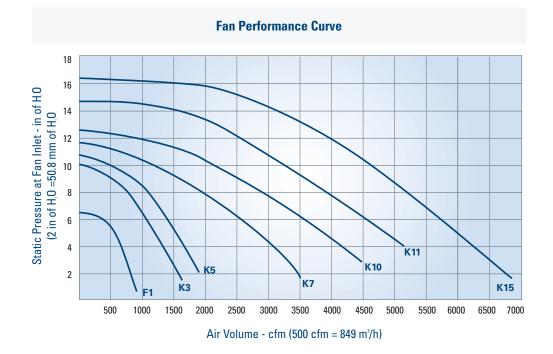
DLMV Operating Conditions	Standard	Optional
Pressure Limits (inches of H,0/millimeters of H,0)	Type B, W and H: -16/-406 Type F: Fan performance curves from shut-off to ambient pressure	-
Compressed Air Required (psi/bar)	65-90/4.5-6.2	-

* Based on clean filters.

INSERTABLE PERFORMANCE SELECTIONS

TO SELECT THE MOST SUITABLE FAN FOR YOUR APPLICATIONS

- Step 1: Determine the air volume flow (cfm/m³h) needed to give effective venting and dust control
- Step 2: Estimate pressure or suction (in of H₂O/mm of H₂O) in the housing in which the dust filter is inserted
- Step 3: Assess the operational pressure drop (in of H₂O/mm of H₂O) across the clean side and dirty side of the filtering element usually between 2 to 4 in of H₂O (51 to 102 mm of H₂O)
- Step 4: The sum of 2 and 3 gives the pressure (in of H₂O/mm of H₂O) required for fan selection purposes
- Step 5: Consult graph for fan performance available



INSERTABLE WEIGHTED SOUND PRESSURE LEVELS

All readings were taken in semi-reverberant surroundings 3'3" (1.0 meter) radius from the equipment housing and 5'3" (1.6 meters) above base level, using a precision sound level meter and octave filter.

	F1 (1 hp)	K3 (2 hp)	K5 (3 hp)	K7 (5 hp)	K10 (7.5 hp)	K11 (10 hp)	K15 (15 hp)
With acoustic diffuser*	76 dB(A)	73 dB(A)	74 dB(A)	76 dB(A)	79 dB(A)**	84 dB(A)	85 dB(A)
Without acoustic diffuser	91 dB(A)	89 dB(A)	92 dB(A)	93 dB(A)	94 dB(A)	97 dB(A)	99 dB(A)

Noise measurements of installed equipment may vary due to site conditions.

* These measurements refer to standard outlet position.

** Estimated data.

STANDARD FEATURES & AVAILABLE OPTIONS

DALAMATIC CASED

Collector Design	Std	Opt
Mild Steel Construction	X	
Horizontal Clean-Side Bag Removal	X	
Rear Dirty-Air Plenum Access Door		Χ
High Temperature Construction		X
Stainless Steel Construction		X
Mountable Fan		Χ
Ladders, Cages, & Platform Assemblies		Χ
Bags & Cages		
Dura-Life Twice the Life Polyester Felt Bags	X	
Helix Tubes		Χ
Quick-Release Filter Clamps		Χ
Variety of Bag Media Options		Χ
Anti-Static Bag Filters		Χ
Paint System		
Textured Multi-Coat Paint Finish with 2,000-Hour Salt Spray Performance	X	
Premium Duty Finish		Х
Custom Colors		Χ
Hopper Design		
Pyramid Hoppers	Х	
Trough Hoppers	Х	
2 and 3 Bank Single-Outlet Hopper	Х	
UMA Hopper		Χ
Support Structure *		
Standard Leg Pack	Х	
Leg Extensions		Χ
Electrical Controls, Gauges & Enclosures		
Solid-State Control Panels and Valves in NEMA 4 Encl.	Χ	
Solid-State Control Panels and Valves in NEMA 9 Encl.		Χ
Control Panels and Valves with Heater in NEMA 9 Encl.		Χ
Magnehelic [®] * Gauge		Χ
Solenoid Enclosure NEMA 9		Χ
Photohelic®* Gauge		Χ
Delta P Control, Delta P Plus Control		Χ
Compressed Air Filter and Regulator		Χ
iCue [™] Connected Filtration Service		Χ
Safety Features		
Sprinkler Pack		X
Explosion Vents		X
Warranty		
10-Year Warranty	Х	

DALAMATIC INSERTABLE

Collector Design	Std	Opt
Mild Steel Construction	X	
Horizontal or Vertical Bag Removal	X	
High Temperature Construction		X
Stainless Steel Construction		X
Acoustic Diffuser Silencers		X
Fans (AMCA "C" Rated) and Motors"		X
Bags & Cages		
Dura-Life Twice the Life Polyester Felt Bags	X	
Helix Tubes		X
Clean-Side Bag Removal	X	
Quick-Release Filter Clamps		X
Variety of Bag Media Options		X
Anti-Static Bag Filters		X
Oleophobic Bag Filters		X
Paint System		
Textured Multi-Coat Paint Finish with 2,000-Hour Salt Spray Performance	X	
Premium Duty Finish		X
Custom Colors		Χ
Support Structure		
Vertical or Horizontal Upstands		X
Electrical Controls, Gauges & Enclosures		
Solid-State Control Panels and Valves in NEMA 4 Encl.	X	
Solid-State Control Panels and Valves in NEMA 9 Encl.		X
Control Panels and Valves with Heater in NEMA 9 Encl.		X
Magnehelic [®] * Gauge		X
Solenoid Enclosure NEMA 9		X
Photohelic®* Gauge		X
Delta P Control, Delta P Plus Control		X
Compressed Air Filter and Regulator		X
iCue [™] Connected Filtration Service		X
Safety Features		
Explosion Proof Motors		X
Warranty		
10-Year Warranty	X	

† Donaldson Torit equipment is designed to IBC guidelines for specific wind speed exposure and seismic spectral acceleration at grade level. Contact your Donaldson Torit representative for detailed information available on the equipment's Spec Control drawings. Equipment may be customized to meet unique, customer-specified site requirements.

* Magnehelic and Photohelic are registered trademarks of Dwyer Instruments, Inc.

** All 60 Hz motors 1HP and above are compliant with EISA.

Industry-Leading Technology

- Advanced filtration technology for optimal performance
- Reduced energy consumption and cost of ownership
- Advanced design and testing capabilities

The Most Filters and Parts

- For every brand and style of collector
- Wide range of filtration media for any application
- 90,000 filters and parts in stock and ready to ship

Unparalleled Support

- Live technical specialists
- Comprehensive pre- and post-sale support
- 40 manufacturing plants and 14 distribution centers worldwide

Significantly improve the performance of your collector with genuine Donaldson Torit replacement filters and parts **31**.

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