Donaldson.



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.

Dalamatics Offer:

- **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[™] Filter Bags** provide better surface loading and better pulse cleaning reducing maintenance and operating costs.
- **Versatility** A full range of sizes and types of bags are available for a wide variety of dust collection applications.

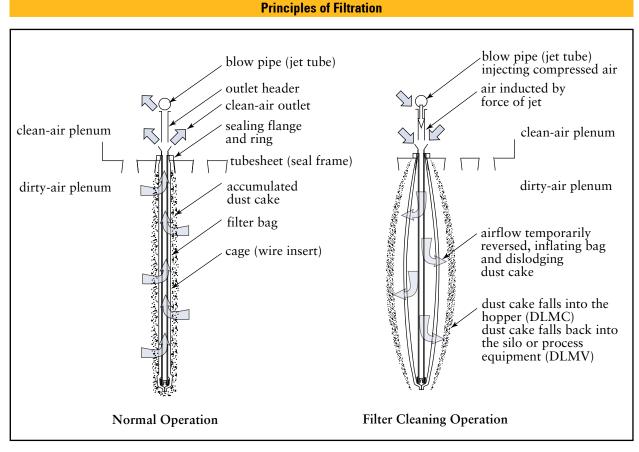
10-year warranty

Simply the Best Dust Collectors Available with Dura-Life[™] Twice the Life Filter Bags



DLMC 3/7/15

Flexible, Effective Filter Media



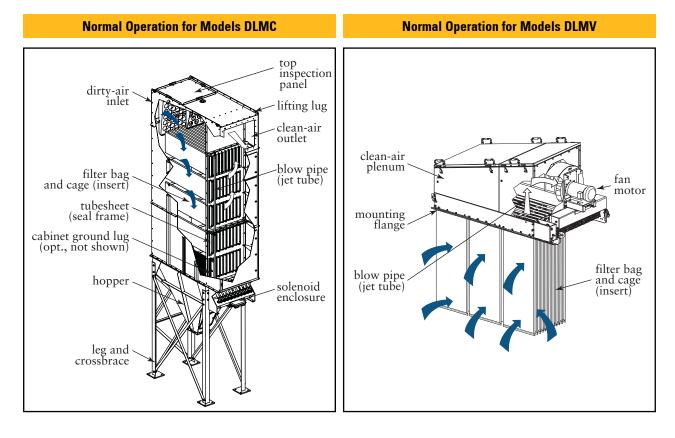
Efficient Media Design The Dalamatic advantage is found in the breakthrough technology of Dura-Life filter bags. Dura-Life bags offer longer bag life and reduced emissions. This unique operation of the filter bag helps achieve high filtration efficiencies.

- 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 filter bag.
- Airflow is then briefly reversed, inflating the filter bag and dislodging dust.
- The dislodged dust cake falls into the collection hopper for final removal or directly back in the the process. The envelope-shaped filter bag, which is mounted on a unique wire frame, ensures optimum airflow and thorough cleaning.



DLMV 45/15

Sizes & Operations



Dalamatic Cased (DLMC)

- Envelope-shaped bags provide maximum filter area per given space and ensure efficient cleaning
- Air volumes range from 1500 to 100,000 cfm
- Modular design gives dimensional and capacity flexibility
- Downward airflow pattern minimizes dust re-entrainment
- Installed face to face (double-banked) reduces required platforms and ductwork for easy access and maintenance
- Standard leg pack meets IBC 2003 requirements

Dalamatic Insertable (DLMV)

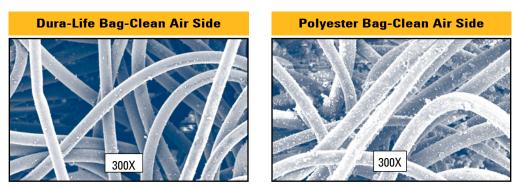
- Five configurations to suit most process applications
- Uses positive pressure of the conveying air or can be fan powered for pneumatic conveying applications
- Bags can be installed hanging vertically, horizontally or any angle in between
- Can be inserted into hood enclosures at belt transfer points, 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

Dura-Life[™] Filter Bag Technology

Standard in All Donaldson Torit Dalamatic Baghouse Collectors

Dura-Life — A technology breakthrough for bag users.

Polyester bags are produced with 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 to blend the fibers. This process provides a more uniform material with smaller pores, better surface loading, and better cleaning. These advantages provide twice the operating life before bags need to be replaced due to high pressure drop. Longer life from Dura-Life bags lowers maintenance and operating costs and raises baghouse dust collection to a whole new level.



These photos were taken with a scanning electron microscope of bag media used in a collector that was filtering fly ash. The bags were removed after 2,700 hours of use. Air-to-media ratio was 4.5 to 1. Pressure drop was 6 in. on polyester bags and 2 in. on Dura-Life.

Dura-Life bags provide big benefits!

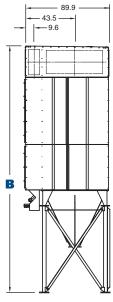
Dura-Life technology provides better surface loading and better pulse cleaning, resulting in:

- Two to three times longer bag life
- Energy savings due to lower pressure drop
- Reduced replacement bag costs due to fewer bag changeouts
- Reduced maintenance and operating costs due to fewer bag changeouts
- 30% fewer emissions based on EPA tests

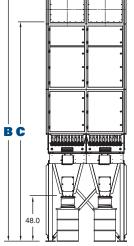


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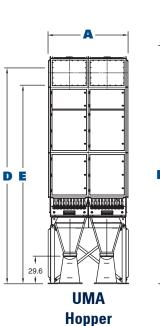




A



Pyramid Hopper* (2/5/15 Model)





A

(2/5/15 Model with 4 cu. ft. Bins)

Hopper (2/5/15 Model)

| DLMC Model | Nominal Airflow Range (cfm)** | Cloth Area (ft²) | No. of Banks | No. of Tiers | No. of Bags | No. of Valves | Ship With Pyramid Hopper | pping Weight (Ibs) With Hopper for UMA 4 cu. ft. Bin | With Trough Hopper |
|---------------|-------------------------------------|---------------------|-----------------|-----------------|----------------|------------------|--------------------------------|--|-----------------------|
| 1/2/15 | 1,290- 3,550 | 323 | 1 | 2 | 20 | 10 | 2243 | 2270 | N/A |
| 1/3/15 | 1,940- 5,335 | 485 | 1 | 3 | 30 | 10 | 2743 | 2770 | N/A |
| 1/4/15 | 2,580 - 7,095 | 645 | 1 | 4 | 40 | 10 | 3384 | 3396 | N/A |
| 2/2/15 | 2,580- 7,095 | 645 | 2 | 2 | 40 | 20 | 3886 | 3907 | 3967 |
| 1/5/15 | 3,240 - 8,910 | 810 | 1 | 5 | 50 | 10 | 3884 | 3894 | N/A |
| 2/3/15 | 3,880-10,670 | 970 | 2 | 3 | 60 | 20 | 4686 | 4543 | 4707 |
| 1/7/15 | 4,520-12,430 | 1130 | 1 | 7 | 70 | 10 | 5145 | 4895 | N/A |
| 2/4/15 | 5,160-14,190 | 1290 | 2 | 4 | 80 | 20 | 5889 | 5593 | 5757 |
| 3/3/15 | 5,815-15,990 | 1454 | 3 | 3 | 90 | 30 | 6877 | 6518 | 6473 |
| 2/5/15 | 6,480-17,820 | 1620 | 2 | 5 | 100 | 20 | 6814 | 6518 | 6682 |
| 2/6/15 | 7,750-21,315 | 1938 | 2 | 6 | 120 | 20 | 7764 | 7468 | 7632 |
| 3/5/15 | 9,690-26,650 | 2423 | 3 | 5 | 150 | 30 | 9677 | 9318 | 9273 |
| 2/8/15 | 10,335-28,420 | 2584 | 2 | 8 | 160 | 20 | 9289 | 8993 | 9157 |
| 3/6/15 | 11,625-31,975 | 2907 | 3 | 6 | 180 | 30 | 11,077 | 10,718 | 10,673 |
| 4/5/15 | 12,920-35,530 | 3230 | 4 | 5 | 200 | 40 | 12,670 | 12,185 | 11,862 |
| 3/7/15 | 13,565-37,310 | 3392 | 3 | 7 | 210 | 30 | 12,177 | 11,818 | 11,773 |
| 3/8/15 | 15,500-42,635 | 3876 | 3 | 8 | 240 | 30 | 13,302 | 12,943 | 12,898 |
| 4/8/15 | 20,670-56,845 | 5168 | 4 | 8 | 320 | 40 | 17,445 | 16,960 | 16,637 |

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

** Based on clean filters.



5

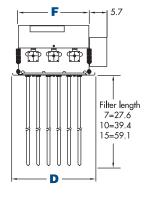
| DLMC | Dimensions (inches) Pyramid UMA | | | | | ough |
|--------|------------------------------------|-------|-------|-----------------------|-----------|-----------|
| Model | А | B | C | D E | F | ough G |
| 1/2/15 | 43.5 | 171.7 | 162.7 | 147.9 138 | 3.9 N/A | N/A |
| 1/3/15 | 43.5 | 185.5 | 194.5 | 170.7 16 | 1.7 N/A | N/A |
| 1/4/15 | 43.5 | 216.8 | 234.2 | 240.8 193 | 3.0 N/A | N/A |
| 1/5/15 | 43.5 | 241.6 | 259.0 | 235.2 217 | 7.8 N/A | N/A |
| 1/7/15 | 43.5 | 287.3 | 304.7 | 280.9 263 | 3.5 N/A | N/A |
| 2/2/15 | 83.0 | 171.7 | 162.7 | 147.9 138 | 3.9 165.7 | 156.7 |
| 2/3/15 | 83.0 | 194.5 | 185.5 | 170.4 16 ⁻ | 1.7 188.5 | 179.5 |
| 2/4/15 | 83.0 | 234.2 | 216.8 | 210.4 193 | 3.0 228.2 | 210.7 |
| 2/5/15 | 83.0 | 259.0 | 241.6 | 235.2 217 | 7.8 253.0 | 235.6 |
| 2/6/15 | 83.0 | 281.9 | 264.4 | 258.1 240 |).7 275.8 | 258.4 |
| 2/8/15 | 83.0 | 327.5 | 310.1 | 303.7 286 | 6.3 321.5 | 304.1 |
| 3/3/15 | 122.4 | 194.5 | 185.5 | 147.9 138 | 3.9 165.7 | 156.7 |
| 3/5/15 | 122.4 | 259.0 | 241.6 | 235.2 217 | 7.8 253.0 | 235.6 |
| 3/6/15 | 122.4 | 281.9 | 264.4 | 258.0 240 |).7 275.8 | 258.4 |
| 3/7/15 | 122.4 | 304.7 | 287.3 | 280.9 263 | 3.5 298.7 | 281.2 |
| 3/8/15 | 122.4 | 327.5 | 310.1 | 303.7 286 | 6.3 321.5 | 304.1 |
| 4/5/15 | 161.9 | 259.0 | 241.6 | 235.2 217 | 7.8 253.0 | 235.6 |
| 4/8/15 | 161.9 | 327.5 | 310.1 | 303.7 286 | 6.3 321.5 | 304.1 |

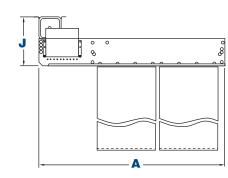
Cased Dimensions & Specifications

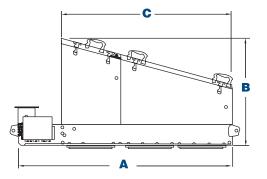
| DLMC Operating Conditions | Standard | Optional |
|--------------------------------|--------------------------|----------------|
| Seismic Spectral Acceleration | $S_s = 1.5 \& S_1 = 0.6$ | - |
| Wind Load Rating (mph) | 90 | - |
| Housing Rating ("wg) | 0-20 | 21-45 |
| Compressed Air Required (psig) | 55-90 | - |
| Temperature Range | 15°F to 140°F | 140°F to 400°F |



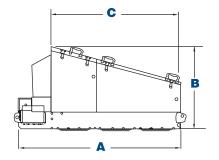
Insertable Dimensions & Specifications





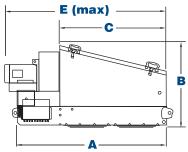


DLMV Type B Basic filter for pressure systems located indoors.



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.

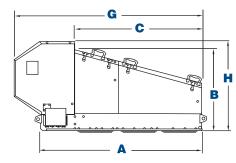


DLMV Type F

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

DLMV Type H

(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 FAD

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

| DLMV Model | No. of Bags | А | в | с | Dimens D | ions (inc E | hes) F | G | н | J |
|--------------------|----------------|-------|------|------|-------------|----------------|-----------|-------|------|------|
| 4/7, 6/10, 9/15 | 6 | 38.3 | 36.8 | 33.8 | 27.5 | 43.1 | 29.1 | 57.4 | 43.3 | 14.7 |
| 7/7, 10/10, 15/15 | 10 | 38.3 | 36.8 | 33.8 | 43.3 | 43.1 | 39.8 | 57.4 | 43.3 | 14.7 |
| 8/7, 12/10, 18/15 | 12 | 62.2 | 36.8 | 44.5 | 27.6 | 64.0 | 29.1 | 71.6 | 43.3 | 15.7 |
| 14/7, 20/10 | 20 | 62.3 | 36.8 | 44.5 | 43.3 | 67.0 | 39.8 | 71.7 | 43.3 | 15.8 |
| 30/15 | 20 | 62.3 | 37.6 | 44.5 | 43.3 | 68.4 | 39.8 | 71.7 | 43.3 | 15.8 |
| 21/7, 30/10, 45/15 | 30 | 85.9 | 42.9 | 68.1 | 43.3 | 93.1 | 39.8 | 100.0 | 46.8 | 15.8 |
| 60/15 | 40 | 112.2 | 42.9 | 88.8 | 43.3 | 113.3 | 39.8 | 120.7 | 46.8 | 15.8 |

Dalamatic®

7

| | Ins | erta | ble | Din | nen | sion | s 8 | & SI | pecif | ficat | ions | | |
|---|---------------|-------------------------|------|------------|------|--------|----------|--------|-----------|-----------|-----------|------------|-------------|
| Nominal DLMV Airflow Range Cloth 4:1 | | | | | 8:1 | No. of | | Motor | Tuna | | ng Weigh | | Turne |
| Model | | Area (ft ²) | cfm | 6:1 cfm | cfm | Valves | | | Type B | Туре Н | Type W | Type F | Type FAD |
| 4/7 | 215- 555 | 43 | 172 | 258 | 344 | 3 | F1 | 1 | 231 | 320 | 331 | 430 | 523 |
| 6/10 | 320- 830 | 64 | 256 | 384 | 512 | 3 | F1 | 1 | 251 | 340 | 351 | 450 | 543 |
| 7/7 | 375- 975 | 75 | 300 | 450 | 600 | 5 | F1 K3 | 1 2 | 353 | 474 | 485 | 584 595 | 688 699 |
| 8/7 | 430-1,115 | 86 | 344 | 516 | 688 | 6 | F1 | 1 | 375 | 518 | 529 | 628 | 727 |
| | | | | | | | K3 | 2 | | | | 640 | 739 |
| 9/15 | 485-1,260 | 97 | 388 | 582 | 776 | 3 | F1 K3 | 1 2 | 273 | 362 | 373 | 472 483 | 565 576 |
| 10/10 | 540-1,400 | 108 | 432 | 648 | 864 | 5 | F1 | 1 | 386 | 507 | 519 | 617 | 721 |
| 10,10 | 010 1,100 | 100 | .02 | 010 | 001 | Ŭ | K3 | 2 | 000 | 001 | 010 | 628 | 732 |
| 12/10 | 645-1,675 | 129 | 516 | 774 | 1032 | 6 | K3 | 2 | 414 | 558 | 569 | 679 | 778 |
| | | | | | | | K5 | 3 | | | | 712 | 811 |
| 14/7 | 750-1,950 | 150 | 600 | 900 | 1200 | 5 | K3 | 2 | 606 | 794 | 805 | 915 | 1025 |
| | | | | | | | K5 | 3 | | | | 948 | 1058 |
| 15/15 | 805-2,090 | 161 | 644 | 966 | 1288 | 5 | K3 | 2 | 423 | 545 | 556 | 666 | 770 |
| | | | | | | | K5 | 3 | | | | 699 | 803 |
| 18/15 | 970-2,520 | 194 | 776 | 1164 | 1552 | 6 | K3 | 2 | 459 | 602 | 613 | 723 | 822 |
| | | | | | | | K5 | 3 | | | | 756 | 855 |
| 20/10 | 1 075 0 705 | 215 | 960 | 1290 | 1720 | 5 | K7 K3 | 5 2 | 672 | 860 | 871 | 833 981 | 932 1091 |
| 20/10 | 1,075-2,795 | 215 | 000 | 1290 | 1720 | 5 | K5 | 2 | 072 | 860 | 0/1 | 1014 | 1124 |
| | | | | | | | K7 | 5 | | | | 1091 | 1201 |
| 21/7 | 1,130-2,935 | 226 | 904 | 1356 | 1808 | 15 | K3 | 2 | 794 | 1058 | 1080 | 1179 | 1307 |
| | .,, | | | | | | K5 | 3 | - | | | 1213 | 1341 |
| | | | | | | | K7 | 5 | | | | 1290 | 1418 |
| 30/10 | 1,615-4,195 | 323 | 1292 | 1938 | 2584 | 15 | K5 | 3 | 893 | 1157 | 1179 | 1312 | 1440 |
| | | | | | | | K7 | 5 | | | | 1389 | 1517 |
| | | | | | | | K10 | 7.5 | | | | 1561 | 1689 |
| 30/15 | 1,615-4,195 | 323 | 1292 | 1938 | 2584 | 10 | K5 | 3 | 750 | 935 | 946 | 1089 | 1199 |
| | | | | | | | K7 | 5 | | | | 1168 | 1278 |
| | | | | | | | K10 | 7.5 | | | | 1321 | 1431 |
| 45/15 | 2,420-6,290 | 484 | 1936 | 2904 | 3872 | 15 | K7 | 5 | 1003 | 1268 | 1290 | 1499 | 1627 |
| | | | | | | | K10 | 7.5 | | | | 1671 | 1799 |
| | | | | | | | K11 | 10 | | | | 1758 | 1886 |
| 60/15 | 3,230-8,395 | 646 | 2584 | 3876 | 5168 | 20 | K11 | 10 | 1323 | 1878 | 1900 | 2374 | 2506 |
| DLMV | Operating Cor | ditions | | Standa | ard | | | | | Option | nal | | |

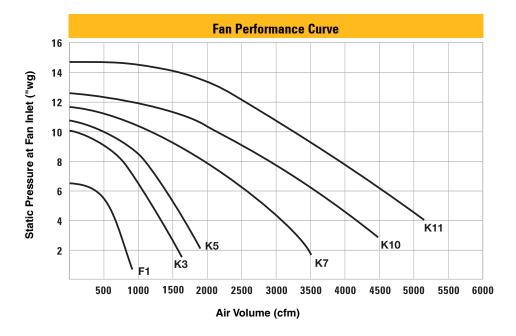
| DLMV Operating Conditions | Standard | Optional |
|--------------------------------|--|-----------------------------|
| Pressure Limits | Type B, W and H: -16"wg | |
| | Type F: As fan performance curves from shut-off to ambient pressure | |
| Compressed Air Required (psig) | 65-90 | |
| Temperature Range | 14°F to 140°F | 140°F to 250°F (not Type F) |
| | | |

* Based on clean filters.

Insertable Performance Selections

To select the most suitable fan for your applications

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



Insertable Weighted Sound Pressure Levels

All readings were taken in semi-reverberant surroundings 3'3" radius from the equipment housing and 5'3" 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) |
|---------------------------|-----------|-----------|-----------|-----------|--------------|-------------|
| With acoustic diffuser* | 76 dB(A) | 73 dB(A) | 74 dB(A) | 76 dB(A) | 79 dB(A)** | 84 dB(A) |
| Without acoustic diffuser | 91 dB(A) | 89 dB(A) | 92 dB(A) | 93 dB(A) | 94 dB(A) | 97 dB(A) |

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

* These measurements refer to standard outlet position.

** Estimated data.

Standard Features & Equipment Options

Dalamatic Cased (DLMC)

| | Standar | id Uptional |
|---|---------|----------------|
| Collector Design | | |
| Mild Steel Construction | X | |
| Horizontal Clean-Side Bag Removal | X | |
| Rear Dirty-Air Plenum Access Door | | X |
| High Temperature Construction | | X |
| Stainless Steel Construction | | X |
| Mountable Fan | | X |
| Ladders, Cages, & Platform Assemblies (OSHA compliant) | | x |
| Bags & Cages | | |
| Dura-Life Twice the Life Polyester Felt Bags | X | |
| Quick-Release Filter Clamps | | X |
| Variety of Bag Media Options | | X |
| Anti-Static Filter Bags | | X |
| Paint System | | |
| Powder-Coated Polyester Textured Finish | X | |
| Blue Exterior Finish Coating Meets 250-Hour Salt Spray Corrosion Protection Test | x | |
| Hostile Environment Paint | | X |
| Custom Colors | | X |
| Hopper Design | | |
| Pyramid Hoppers | X | |
| Trough Hoppers | X | |
| 2 and 3 Bank Single-Outlet Hopper | X | |
| UMA Hopper | | X |
| Support Structure | | |
| Standard Leg Pack | X | |
| Leg Extensions | | X |
| Electrical Controls, Gauges and Enclose | ures | |
| 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 |
| Safety Features | | I |
| Sprinkler Pack | | X |
| Explosion Vents | | X |
| Warranty | | |
| 10-Year Warranty | X | |

Dalamatic Insertable (DLMV)

| | Standar | d Iptiona |
|---|---------|--------------|
| Collector Design | | , |
| Mild Steel Construction | x | |
| Horizontal or Vertical Bag Removal | x | |
| High Temperature Construction | | x |
| Stainless Steel Construction | | x |
| Acoustic Diffuser Silencers | | x |
| Bags & Cages | | |
| Dura-Life Twice the Life Polyester Felt Bags | X | |
| Clean-Side Bag Removal | X | |
| Quick-Release Filter Clamps | | X |
| Variety of Bag Media Options | | X |
| Anti-Static Filter Bags | | X |
| Paint System | | |
| Powder-Coated Polyester Texture | X | |
| Blue Exterior Finish Coating Meets 250-Hour Salt Spray Corrosion Protection Test | x | |
| Hostile Environment Paint | | X |
| Custom Colors | | X |
| Support Structure | | |
| Vertical or Horizontal Upstands | | X |
| Electrical Controls, Gauges and Enclosu | res | |
| 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 |
| Safety Features | | |
| Explosion Proof Motors | | X |
| Warranty | | |
| 10-Year Warranty | x | |

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

U.S. Patent 7,015,158

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

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Since 1995, Environmental Solutions has been helping businesses, like yours, improve their workplace air quality. As an authorized service center for Donaldson Torit, we offer you a one-stop shop for equipment, service, engineering and installation of the industry's leading air pollution control systems.

Whether your company requires the removal of oil mist, welding fumes, machining or woodworking dust, graphite, or correction of any other type of air quality problem; we can expertly engineer and install a quality Donaldson Torit solution to meet your unique needs. No system is too big or too small.

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