

### RF BAGHOUSE DUST COLLECTORS









### ENERGY EFFICIENT, HIGH VOLUME DUST COLLECTOR

The rugged Donaldson<sup>®</sup> Torit<sup>®</sup> RF baghouse collector handles heavy dust loads and large volumes of air more effectively than any collector on the market.

The small footprint of the RF combines a cyclone precleaner and a baghouse into one unit. It features a powerful yet energy-efficient cleaning system, eliminating the need for compressed air to clean the bags. Combined with the revolutionary Dura-Life<sup>®</sup> "Twice the Life" bag filters, or our new Ultra-Web SB pleated bag filter offering, the award-winning RF gets the job done while using much less energy than competitor collectors.

Side by side, no other baghouse provides more performance than the Donaldson Torit RF baghouse collector.

#### **THE RF FEATURES:**

- High-Body inlet option for abrasive dust
- Even-Air<sup>™</sup> Flow Straightener reduces wear on bag filters
- Award winning Dura-Life<sup>®</sup> "Twice the Life" bag filters
- Oval shaped bags provide better snap for better bag cleaning
- Ultra-Web SB Pleated Bag Option
- Clean-air bag access for easier bag service
- Single inlet, outlet and hopper reduces duct and hopper outlet costs
- 60° conical hopper reduces dust build-up
- Requires less energy than comparable sized units
- RF cleaning system requires no compressed air
- 10-year warranty

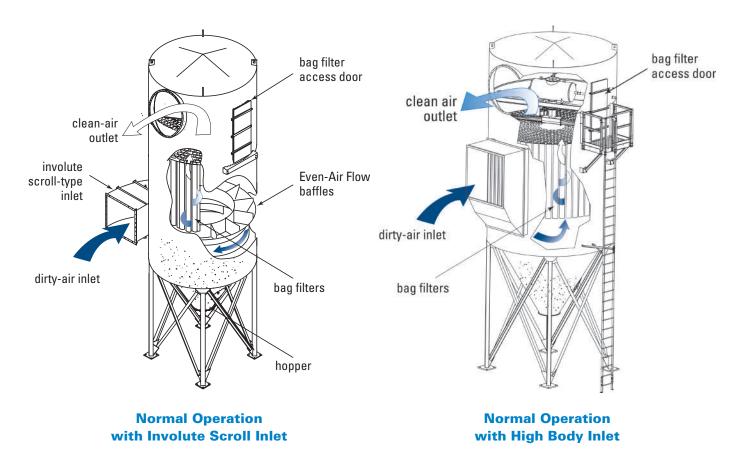


156RFW8

#### **SMART COLLECTOR**

Now available with iCue<sup>™</sup> Connected Filtration Technology. The system continuously tracks your equipment providing performance details, actionable insights, and alerts directly to your personalized dashboard on your connected device.

### **OPERATIONS & FEATURES**



#### **BAGHOUSE OPERATIONS THAT WORK**

The RF collector works so well that many competitors strive to copy its award winning design, but no one has been able to duplicate the RF's performance.

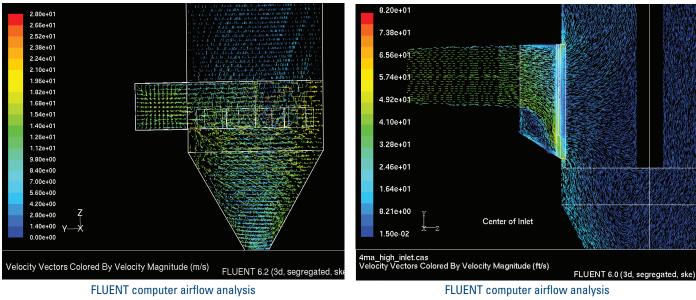
An involute scroll inlet puts dust into a cyclonic spin allowing for heavier particles to fall into the hopper, thus eliminating the need for a cyclone precleaner (for some applications with abrasive dusts, the optional high body inlet may be preferred). The remaining dust is then collected on oval shaped filter bags that provide greater snap during pulsing resulting in better bag cleaning. Rather than using expensive compressed air, the RF comes complete with a pump that provides a medium pressure/high volume pulse of air to a rotating cleaning arm timed to clean non-adjacent bag filters, thus reducing dust re-entrainment.

## HIGH-VOLUME PERFORMANCE WITH DURA-LIFE<sup>™</sup> "TWICE THE LIFE" BAG FILTERS OR OUR **NEW** ULTRA-WEB SB PLEATED BAGS

## **OPERATIONS & FEATURES**

#### EVEN AIRFLOW DISTRIBUTION

To prevent bag filter wear and abrasion that can occur in other collectors, the RF baghouse collector comes standard with our proprietary Even-Air" Flow Straightener or high body inlet. Designed using sophisticated FLUENT<sup>®</sup>\* computer airflow analysis, the RF provides the most uniform airflow possible resulting in reduced bag abrasion, longer filter bag life and lower maintenance costs.



showing airflow with involute scroll inlet and Even-Air Flow Straightener.

showing airflow with high body inlet.

### BENEFITS OF THE OVAL-SHAPED BAG

Oval shaped bag filters provide better snap during cleaning as compared to round bags – allowing the dust to be more easily knocked off the bags. This results in lower pressure drop and longer bag filter life.

Oval shaped bag filters increase the amount of bag material that can fit in a given area, thus increasing collector capacity.



### **OPERATING ADVANTAGES**

The RF cleaning system uses much less energy when compared to compressed air cleaning systems. The charts below illustrate the energy savings that can be realized for various annual operation scenarios.

#### **RF CLEANING SYSTEM USES LESS ENERGY THAN COMPRESSED AIR CLEANING SYSTEMS**

	Annual Cleaning System vs. Compressed Air System Costs								
Weekly Operation	Operating Hours	RF Cleaning System Operating Costs	Competitor Compressed Air Operating Costs	Savings with RF	Annual Savings				
8 hrs. per day 5 days per week	2080	\$885	\$2,342	\$1,457	62%				
16 hrs. per day 5 days per week	4160	\$1,771	\$4,685	\$2,914	62%				
24 hrs. per day 5 days per week	6240	\$2,656	\$7,027	\$4,371	62%				

Assumes the use of a 484 RF compared to a similar size collector with compressed air cleaning system.

Assumes U.S. Energy Average Cost of 6.68 cents per kilowatt hour and a Baldor motor that is operating at full-load amps.

Your savings may vary based on your costs per kilowatt hour and the efficiency of your motor.





# **RF WITH ULTRA-WEB SB PLEATED BAGS RUNS AT A LOWER PRESSURE DROP SAVING FAN ENERGY**

	Annual RF Fan vs. Competitor Fan Operating Costs								
Weekly Operation	Operating Hours	RF Fan Operating Costs	Competitor Fan Operating Costs	Savings with RF	Annual Savings				
8 hrs. per day 5 days per week	2080	\$2,237	\$4,474	\$2,237	50%				
16 hrs. per day 5 days per week	4160	\$4,474	\$8,984	\$4,474	50%				
24 hrs. per day 5 days per week	6240	\$6,711	\$13,442	\$6,711	50%				

Assumes the use of a 484 RF running 50,000 cfm (84,933 m<sup>3</sup>/h) at a 2" (50.8 mm) pressure drop versus a competitor collector running at a 4" (101.6 mm) pressure drop. Assumes the use of a variable frequency drive, a fan efficiency of 81%, 0.746 watts of energy per horsepower and a 90% electrical transmission efficiency. Assumes U.S. Energy Average Cost of 6.68 cents per kilowatt hour and a Baldor motor that is operating at full-load amps.

Your savings may vary based on your costs per kilowatt hour and the efficiency of your motor.

### TWO BREAKTHROUGH FILTER OPTIONS FOR YOUR RF

#### 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**

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



#### PLEATED BAGS WITH ULTRA-WEB SB PROVIDE LONGER LIFE AND REDUCED EMISSIONS

For more than two decades, Donaldson Torit has advanced the proven Ultra-Web fine fiber technology. Ultra-Web provides a very fine, continuous fiber of 0.2-0.3 micron in diameter to form a web-like net that traps dust on the surface of the media. Combining Ultra-Web technology with a sturdy spunbond polyester substrate, Ultra-Web SB pleated bag filters provide longer life, reduced downtime and reduced emissions.

#### **ULTRA-WEB SB PLEATED BAG BENEFITS**

- Up to two times longer filter life
- Energy savings due to lower pressure drop
- Reduced maintenance and downtime costs
- Reduced emissions
- Snap-in design for tool free installation



Snap-In

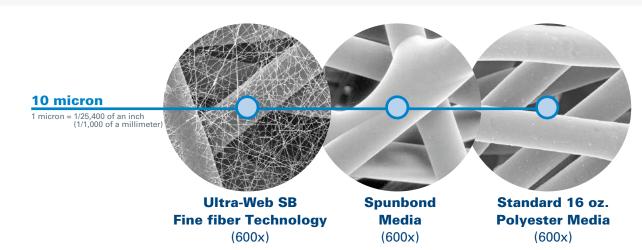






Bolt Safe

• Fully synthetic snap-in design eliminates the need to provide bonding points



### **PROVEN PERFORMANCE ON HUNDREDS OF APPLICATIONS**



**376RF at Cabinet Shop** 



484RF - Two High Temperature Collectors on Secondary Aluminum Processing



**776RF at Wood Furniture Plant** 



**156RF on Grain Processing** 



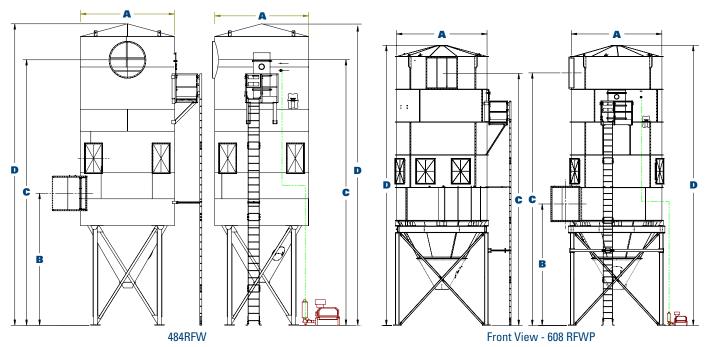
356RF on Wood Dust with High Inlet & Custom Color



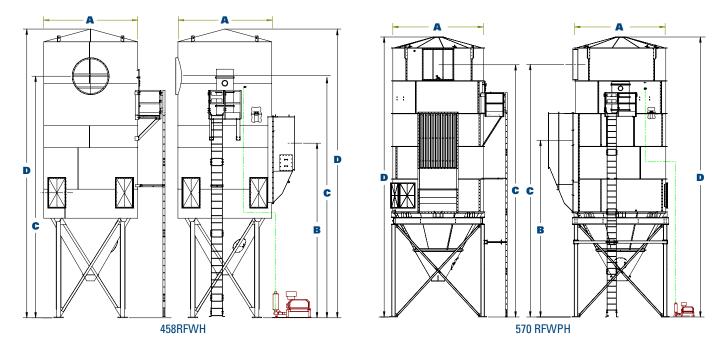
**124RF on Quarrying** 

### **DIMENSIONS & SPECIFICATIONS**

#### **MODEL 484RFW & 608RFWP (WALK-IN)**



#### **MODEL 458RFWH & 570RFWPH (WALK-IN HIGH BODY INLET)**



RF Model Nomenclature:

First number denotes the number of bags and last number denotes the bag length in feet. W = walk-in plenum for sheltered bag removal; H = high body inlet; P = panelized construction for field assembly.

				RFW Dim	nensions				
Model*	ļ	4	I	В		С	D		
	in	mm	in	mm	in	mm	in	mm	
18RFWH8	96.0	2,438.4	228.0	5,791.2	321.0	8,153.4	366.0	9,296.4	
18RFWH10	96.0	2,438.4	254.0	6,451.6	351.0	8,915.4	420.0	10,668.0	
24RF8	96.0	2,438.4	156.0	3,962.4	343.0	8,712.2	388.0	9,855.2	
24RF10	96.0	2,438.4	156.0	3,962.4	367.0	9,321.8	436.0	11,074.4	
46RFWH8	96.0	2,438.4	228.0	5,791.2	321.0	8,153.4	366.0	9,296.4	
46RFWH10	96.0	2,438.4	254.0	6,451.6	351.0	8,915.4	420.0	10,668.0	
56RF8	96.0	2,438.4	156.0	3,962.4	343.0	8,712.2	388.0	9,855.2	
56RF10	96.0	2,438.4	156.0	3,962.4	367.0	9,321.8	436.0	11,074.4	
26RFWH8	123.0	3,124.2	239.4	6,080.8	344.4	8,747.8	395.1	10,035.5	
26RFWH10	123.0	3,124.2	257.4	6,538.0	374.4	9,509.8	449.1	11,407.1	
26RFWH12	123.0	3,124.2	275.4	6,995.2	404.4	10,271.8	503.1	12,778.7	
32RF8	123.0	3,124.2	184.8	4,693.9	378.4	9,611.4	429.1	10,899.1	
32RF10	123.0	3,124.2	184.8	4,693.9	402.4	10,221.0	477.1	12,118.3	
32RF12	123.0	3,124.2	184.8	4,693.9	426.4	10,830.6	525.1	13,337.5	
66RFWH8	123.0	3,124.2	239.4	6,080.8	344.4	8,747.8	395.1	10,035.5	
266RFWH10	123.0	3,124.2	257.4	6,538.0	374.4	9,509.8	449.1	11,407.1	
266RFWH12	123.0	3,124.2	275.4	6,995.2	404.4	10,271.8	503.1	12,778.7	
76RF8	123.0	3,124.2	184.8	4,693.9	378.4	9,611.4	429.1	10,899.1	
76RF10	123.0	3,124.2	184.8	4,693.9	402.4	10,221.0	477.1	12,118.3	
76RF12	123.0	3,124.2	184.8	4,693.9	426.4	10,830.6	525.1	13,337.5	
56RFWH8	139.6	3,545.8	253.8	6,446.5	358.8	9,113.5	413.1	10,492.7	
56RFWH10	139.6	3,545.8	271.8	6,903.7	388.8	9,875.5	467.1	11,864.3	
56RFWH12	139.6	3,545.8	289.8	7,360.9	418.8	10,637.5	521.1	13,235.9	
76RF8	139.6	3,545.8	202.8	5,151.1	398.8	10,129.5	453.1	11,508.7	
76RF10	139.6	3,545.8	202.8	5,151.1	423.1	10,746.7	501.1	12,727.9	
376RF2	139.6	3,545.8	202.8	5,151.1	446.8	11,348.7	549.1	13,947.1	
58RFWH8	157.6	4,003.0	269.4	6,842.8	374.6	9,514.8	431.4	10,957.6	
58RFWH10	157.6	4,003.0	288.4	7,325.4	404.4	10,271.8	485.1	12,321.5	
58RFWH12	157.6	4,003.0	305.4	7,757.2	434.4	11,033.8	539.1	13,693.1	
84RF8	157.6	4,003.0	221.4	5,623.6	420.4	10,678.2	477.1	12,118.3	
84RF10	157.6	4,003.0	221.4	5,623.6	444.4	11,287.8	525.1	13,337.5	
84RF12	157.6	4,003.0	221.4	5,623.6	468.4	11,897.4	573.1	14,556.7	
70RFWPH10	188.0	4,775.2	345.1	8,765.5	498.5	12,661.9	553.5	14,058.9	
70RFWPH12	188.0	4,775.2	345.1	8,765.5	498.5	12,661.9	577.5	14,668.5	
08RFWP10	188.0	4,775.2	234.2	5,948.7	498.5	12,661.9	553.3	14,053.8	
08RFWP12	188.0	4,775.2	234.2	5,948.7	522.5	13,271.5	601.3	15,273.0	
76RFWPH10	228.5	5,803.9	380.4	9,662.2	533.8	13,558.5	594.3	15,095.2	
76RFWPH12	228.5	5,803.9	380.4	9,662.2	533.8	13,558.5	618.3	15,704.8	
25RFWP10	228.5	5,803.9	269.6	6,847.8	533.8	13,558.5	594.3	15,095.2	
25RFWP12	228.5	5,803.9	269.6	6,847.8	557.8	14,168.1	642.3	16,314.4	
51RFWPH10	228.5	5,803.9	380.4	9,662.2	533.8	13,558.5	594.3	15,095.2	
51RFWPH12	228.5	5,803.9	380.4	9,662.2	533.8	13,558.5	642.3	16,314.4	
05RFWP10	228.5	5,803.9	269.6	6,847.8	533.8	13,558.5	594.3	15,095.2	
05RFWP12	228.5	5,803.9	269.6	6,847.8	557.8	14,168.1	642.3	16,314.4	

\* All units 570 and larger are of panelized construction and dimension "B" is from center of the inlet to bottom of the 36-in (914.4 mm) hopper outlet.

	Bag Cloth Area		Pleated Bag Media Area							No.	Air	Shipping Weight		
Model*			30" UW 40		40" (	'UW 60"		JW	80" SB		of	Pump	RFW	
	ft²	m²	ft²	m²	ft²	m²	ft²	m²	ft²	m²	Bags	(hp)	lb	kg
118RFH8	1230	114	1,569	146	2,053	191	3,139	292	4,118	383	118	3.0	10,000	4,535.9
118RFH10	1535	143	1,569	146	2,053	191	3,139	292	4,118	383	118	3.0	10,900	4,944.2
124RF8	1292	120	1,649	153	2,158	200	3,298	306	4,328	402	124	3.0	10,048	4,557.7
124RF10	1613	150	1,649	153	2,158	200	3,298	306	4,328	402	124	3.0	10,910	4,948.7
146RFH8	1521	142	1,942	180	2,540	236	3,883	361	5,095	473	146	3.0	10,300	4,672.0
146RFH10	1899	177	1,942	180	2,540	236	3,883	361	5,095	473	146	3.0	11,200	5,080.2
156RF8	1626	151	2,075	193	2,714	252	4,149	385	5,444	506	156	3.0	10,298	4,671.1
156RF10	2030	189	2,075	193	2,714	252	4,149	385	5,444	506	156	3.0	11,217	5,087.9
226RFH8	2355	219	3,006	279	3,932	365	6,011	558	7,887	733	226	5.0	15,300	6,940.0
226RFH10	2940	273	3,006	279	3,932	365	6,011	558	7,887	733	226	5.0	16,600	7,529.6
226RFH12	3503	325	3,006	279	3,932	365	6,011	558	7,887	733	226	5.0	17,800	8,073.9
232RF8	2417	225	3,086	287	4,037	375	6,171	573	8,097	752	232	5.0	15,304	6,941.8
232RF10	3018	281	3,086	287	4,037	375	6,171	573	8,097	752	232	5.0	16,591	7,525.6
232RF12	3596	334	3,086	287	4,037	375	6,171	573	8,097	752	232	5.0	17,825	8,085.3
266RFH8	2772	258	3,538	329	4,628	430	7,075	657	9,283	862	266	5.0	15,600	7,076.0
266RFH10	3461	322	3,538	329	4,628	430	7,075	657	9,283	862	266	5.0	17,000	7,711.1
266RFH12	4123	383	3,538	329	4,628	430	7,075	657	9,283	862	266	5.0	18,300	8,300.7
276RF8	2876	268	3,671	341	4,802	446	7,341	682	9,632	895	276	5.0	15,614	7,082.4
276RF10	3591	334	3,671	341	4,802	446	7,341	682	9,632	895	276	5.0	16,975	7,699.7
276RF12	4278	397	3,671	341	4,802	446	7,341	682	9,632	895	276	5.0	18,290	8,296.2
356RFH8	3710	345	4,735	440	6,194	575	9,469	880	12,424	1,154	356	7.5	19,600	8,890.4
356RFH10	4632	431	4,735	440	6,194	575	9,469	880	12,424	1,154	356	7.5	21,200	9,616.2
356RFH12	5518	513	4,735	440	6,194	575	9,469	880	12,424	1,154	356	7.5	22,900	10,387.3
376RF8	3918	365	5,001	465	6,542	608	10,001	929	13,122	1,219	376	7.5	19,617	8,898.1
376RF10	4892	455	5,001	465	6,542	608	10,001	929	13,122	1,219	376	7.5	21,248	9,637.9
376RF12	5828	541	5,001	465	6,542	608	10,001	929	13,122	1,219	376	7.5	22,868	10,372.8
458RFH8	4772	444	6,091	566	7,969	740	12,182	1,132	15,984	1,485	458	7.5	25,400	11,521.2
458RFH10	5959	554	6,091	566	7,969	740	12,182	1,132	15,984	1,485	458	7.5	27,800	12,609.9
458RFH12	7099	660	6,091	566	7,969	740	12,182	1,132	15,984	1,485	458	7.5	30,100	13,653.1
484RF8	5043	469	6,437	598	8,422	782	12,874	1,196	16,892	1,569	484	7.5	25,458	11,547.6
484RF10	6297	586	6,437	598	8,422	782	12,874	1,196	16,892	1,569	484	7.5	27,796	12,608.1
484RF12	7502	697	6,437	598	8,422	782	12,874	1,196	16,892	1,569	484	7.5	30,115	13,659.9
570RFH10	7416	690	7,581	704	9,918	921	15,161	1,409	19,893	1,848	570	15.0	40,049	18,165.9
570RFH12	8835	821	7,581	704	9,918	921	15,161	1,409	19,893	1,848	570	15.0	42,029	19,064.0
608RF10	7910	736	8,086	751	10,579	983	16,172	1,502	21,219	1,971	608	15.0	41,505	18,826.4
608RF12	9424	876	8,086	751	10,579	983	16,172	1,502	21,219	1,971	608	15.0	44,278	20,084.2
776RFH10	10096	939	10,321	959	13,502	1,254	20,641	1,918	27,082	2,516	776	20.0	50,792	23,038.9
776RFH12	12028	1117	10,321	959	13,502	1,254	20,641	1,918	27,082	2,516	776	20.0	53,220	24,140.2
825RF10	10733	998	10,973	1,019	14,355	1,334	21,944	2,039	28,793	2,675	825	20.0	53,446	24,242.7
825RF12	12788	1188	10,973	1,019	14,355	1,334	21,944	2,039	28,793	2,675	825	20.0	56,969	25,840.7
851RFH10	11072	1030	11,318	1,052	14,807	1,376	22,636	2,103	29,700	2,759	851	20.0	51,544	23,380.0
851RFH12	13191	1225	11,318	1,052	14,807	1,376	22,636	2,103	29,700	2,759	851	20.0	54,095	24,537.1
905RF10	11774	1095	12,037	1,118	15,747	1,463	24,072	2,236	31,585	2,934	905	20.0	54,255	24,609.7
		1303	12,037	1,118	15,747	1,463	24,072	2,236	31,585	2,934	905			26,267.1

\* All units 570 and larger are of panelized construction. \*\* Based on clean filters.

### **STANDARD FEATURES** & AVAILABLE OPTIONS

Collector Design	Std	Opt
All-Welded or Panelized Construction	X	
Heavy-Duty 1/4-in (6.4 mm) Tubesheet Construction	X	
Air Pump (TEFC Motor Drive) for Cleaning System	X	
1/3 HP TEFC Motor for Manifold Drive	X	
Involute Scroll Inlet	X	
Round Outlet for RFW	X	
Rectangular Outlet for RFP	X	
Rectangular Outlet for RFW		X
High Body Inlet		X
Ladders & Platform Assemblies		X
Stainless Steel Construction		X
Internal Service Light		X
Bags & Cages		
Dura-Life Twice the Life Polyester Felt Oval-Shaped Bag Filters	x	
Galvanized Grounded Bag Filter Cages with Positive Seal Boltsafe <sup>∞</sup> Hardware	X	
Ultra-Web® SB Pleated Bags with Boltsafe Hardware		X
Ultra-Web® SB Fully Synthetic Snap-In Pleated Bags		X
Variety of Bag Filter and Pleated Bag Media Options		X
Hopper Design		
60° Conical Hoppers	X	
Hopper Manhole	X	
Outlet Transitions		X
Hopper Service Port		X
Hopper Level Indicators		X
3" (76.2 mm) Hopper Water Overflow Check Valve		X

Support Structure <sup>®</sup>	Std	Opt				
Steel Support Legs		X				
Electrical Controls, Gauges and Enclosures						
Magnehelic <sup>®</sup> ** Gauge	X					
Pulse Solenoid Valve in NEMA 9 Enclosure	X					
Solid-State Timer in Type (NEMA/UL) 4 Enclosure	X					
Photohelic <sup>®</sup> ** Gauge		X				
RF Electrical Control Panel		X				
iCue™ Connected Filtration Technology		X				
Safety Features						
Sprinkler Taps		X				
Explosion Vents		X				
Ladder Safety System		X				
Paint System						
Prime Coated Interior	X					
Textured Multi-Coat Paint Finish with 2,000-Hour Salt Spray Performance	x					
Premium Duty Finish		X				
Custom Colors		X				
Ceramic Insulation Finish		X				
Warranty						
10-Year Warranty	X					

\* All 60 Hz motors 1 HP and above are EISA compliant and considered NEMA Premium® per Table 12-12. NEMA Premium is a registered trademark of National Electrical Manufacturers Association.

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

† 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.

#### **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. Call Donaldson Torit at 800-365-1331.

#### **Important Notice**

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### Donaldson Company, Inc. Minneapolis, MN

donaldson.com • shop.donaldson.com North America Email: donaldsontorit@donaldson.com

Phone: (USA): +1-800-365-1331 Latinoamerica

Phone: +52-449-300-2442 Email: industrialair@donaldson.com Toll Free: (CO) (57) 601-580-1611 (CL) +800-914-544 • (PE) +800-712-10 (BR) +55 (11) 99707-6689

#### China Email: info.cn@donaldson.com Phone: +86-400-921-7956

Donaldson Europe B.V. Email: IAF-europe@donaldson.com Phone: +32-16-38-3811

India Email: info.difs@donaldson.com Phone: +91-124-4807-400 • +18001035018

Australasia Email: marketing.australia@donaldson.com Phone: +61-02-4350-2066 Toll Free: (AU) +1800-345-837 • (NZ) +0800-743-387

Korea Email: contactus.kr@donaldson.com Phone: +82-2-517-3333 South Africa

Email: SAMarketing@donaldson.com Phone: +27-11-997-6000 Southeast Asia

Email: IAF.SEA@donaldson.com Phone: +65-6311-7373

Japan Email: jp-ndl.ifsweb@donaldson.com Phone: +81-42-540-4114



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