RF Baghouse Collectors

Models 48RF8–484RF12

Simple design and energy-efficient filtration for high-volume dust collection applications.

- Handles extremely heavy dust loads of up to 70–100 grains per cubic foot in a variety of applications including woodworking, cement, grain, chemicals, and food.
- High filtration efficiencies of 99.9%+ by weight with minimal pressure drop.
- Even-Air™ Flow Straightener eliminates bag sway and extends bag life by straightening airflow.
- Bag service from the clean-air side of collector makes filter changeout safer, easier, and faster.
- Single hopper uses only one rotary valve resulting in lower system and installation costs.
- Conical hopper prevents product build-up.

The RF Cleaning System reduces operations costs.

- Each bag is cleaned within four minutes, yet never cleans adjacent bags thus reducing re-entrainment issues.
- Cleans by using its own air supply, eliminating the need for costly compressed air.
- Small horsepower cleaning motor saves energy costs.

RF Baghouse Collector

The Donaldson Torit RF cleaning system requires a significantly smaller motor when compared to competitive units. The chart below illustrates the average energy savings for a variety of annual operating scenarios.

5 Days/Week Hours/Day	Annual Operating Hours	Annual 5 HP Operating Costs	Annual 25 HP Operating Costs	Annual Savings
8	2080	$618	$2986	$2,368
16	4160	$1,235	$5971	$4,736
24	6240	$1,853	$8957	$7,104

Assumes U.S. Energy Average Cost of 6.68 cents per kilowatt hour with the motor operating at full-load amps. Savings will vary based on costs per kilowatt hour.

RF Baghouse Collectors

All-Welded Construction
Solid, durable one-piece body makes it easier and less costly to install the dust collector. Heavy duty 1/4" tubesheet and up to 3/16" body wall thickness resists warping.

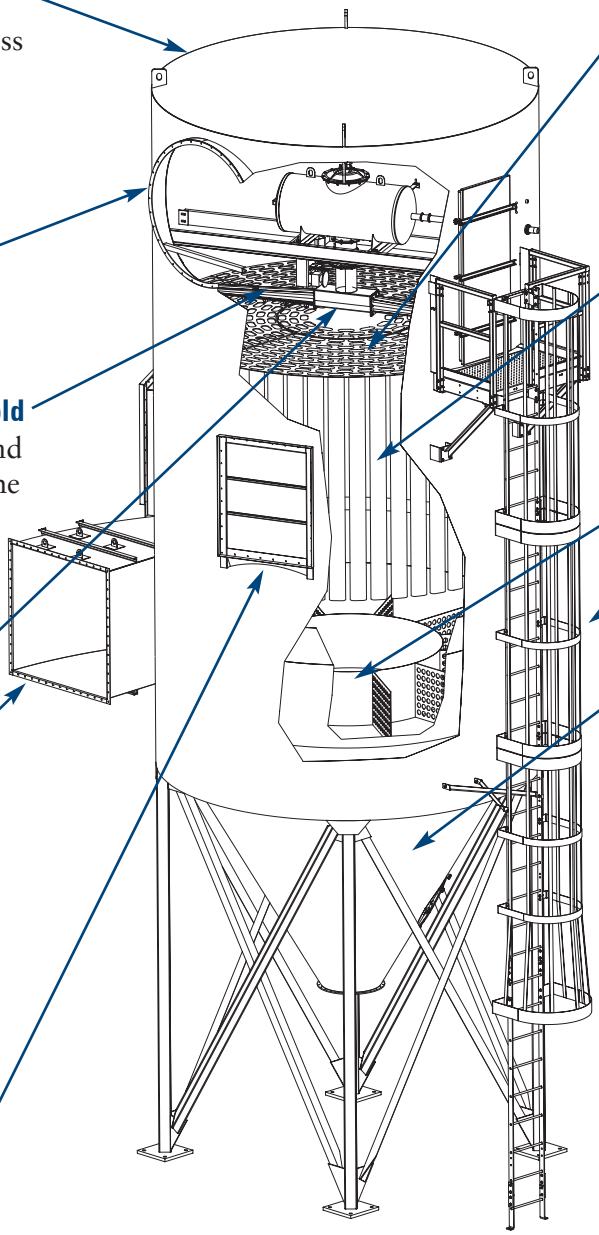
Standard Round Outlet on Walk-In Units
(Rectangular optional)

Rotating Cleaning Air Manifold
Needs only one solenoid and diaphragm valve because the manifold rotates into position over the bag openings. Makes trouble-shooting and maintenance much easier.

RF Cleaning System

Involute Scroll Inlet
Directs dirty air into a cyclonic pattern, causing heavy dust particles to fall into the hopper before the air passes to the filter bag section. This eliminates the need for a cyclone precleaner used on other baghouses.

Optional Explosion Vents



Positive-Seal Boltsafe™ Cages
Provide electrical grounding, easy bag changeout, reduced bag sway, and an airtight seal to the tubesheet. Cages will not rise out of position once they are installed.

Oval Bags
Provide more radial bag movement during the cleaning cycle, resulting in longer bag life and lower pressure drop.

Even-Air Flow Straightener

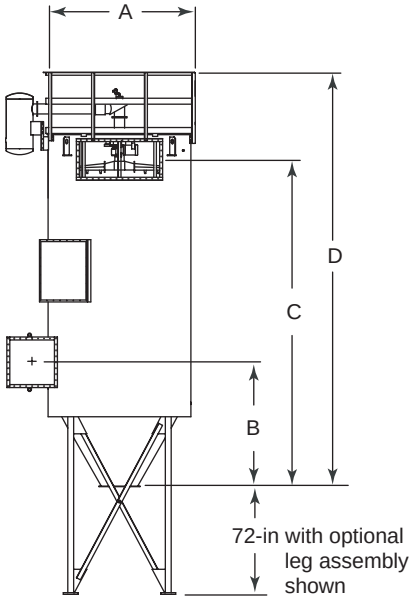
Optional Legs and Caged Ladders

Compact Design
Round unit has one hopper in base; there is usually no need for screw conveyors or multiple discharge devices.

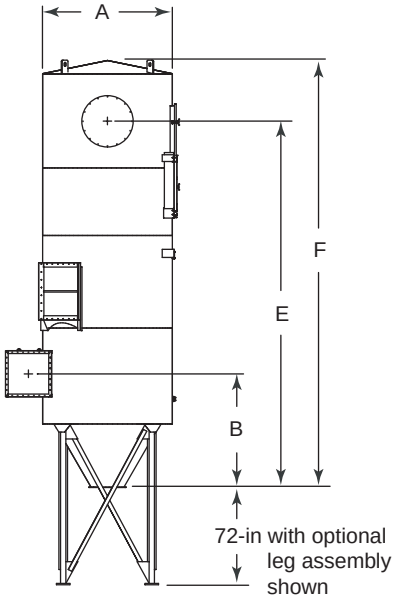
Medium-Pressure Air Pump
(not shown)
Eliminates need for plant compressed air, which can be susceptible to condensation, oil and freezing problems. The medium-pressure air pulse cleans efficiently to extend bag life.

Easy to install–built to last.

Dimensions & Specifications



Model RFT



Model RFW

Model	No. of Bags	Bag Length (ft)	Cloth Area (ft^2)	Air-to-Media ratio (cfm)			Air Pump (hp)	Approximate Dimensions (inches)						Shipping Weight (lbs)
				5:1	10:1	15:1		A	B	C	D	E	F	
48RF8	48	8	499	2,495	4,990	7,485	2	68.0	54.8	186.3	231.9	236.6	293.5	7,388
48RF10	48	10	624	3,120	6,240	9,360	2	68.0	54.8	210.3	255.9	260.6	341.5	8,105
72RF8	72	8	749	3,745	7,490	11,235	2	68.0	54.8	186.3	231.9	236.6	293.5	7,554
72RF10	72	10	937	4,685	9,370	14,055	2	68.0	54.8	210.3	255.9	260.6	341.5	8,306
124RF8	124	8	1290	6,450	12,900	19,350	2	96.0	84.0	220.5	266.4	271.0	316.0	10,048
124RF10	124	10	1613	8,065	16,130	24,195	3	96.0	84.0	244.5	290.4	295.0	364.0	10,910
156RF8	156	8	1622	8,110	16,220	24,330	3	96.0	84.0	220.5	266.4	271.0	316.0	10,298
156RF10	156	10	2030	10,150	20,300	30,450	3	96.0	84.0	244.5	290.4	295.0	364.0	11,217
232RF8	232	8	2413	12,065	24,130	36,195	3	123.0	113.4	261.9	314.9	306.4	357.1	15,304
232RF10	232	10	3018	15,090	30,180	45,270	5	123.0	113.4	285.9	338.9	330.4	405.1	16,591
232RF12	232	12*	3622	18,110	36,220	54,330	5	123.0	113.4	309.9	362.9	354.4	453.1	17,825
276RF8	276	8	2870	14,350	28,700	43,050	3	123.0	113.4	261.9	314.9	306.4	357.1	15,614
276RF10	276	10	3591	17,955	35,910	53,865	5	123.0	113.4	285.9	338.9	330.4	405.1	16,975
276RF12	276	12*	4308	21,540	43,080	64,620	5	123.0	113.4	309.9	362.9	354.4	453.1	18,290
376RF8	376	8	3910	19,550	39,100	58,650	7.5	139.6	130.8	285.3	339.9	326.8	381.1	19,617
376RF10	376	10	4892	24,460	48,920	73,380	7.5	139.6	130.8	309.3	363.9	350.8	429.1	21,248
376RF12	376	12*	5869	29,345	58,690	88,035	7.5	139.6	130.8	333.3	387.9	374.8	477.1	22,868
484RF8	484	8	5034	25,170	50,340	75,510	7.5	157.6	149.8	309.9	383.9	348.4	405.1	25,458
484RF10	484	10	6297	31,485	62,970	94,455	7.5	157.6	149.8	333.9	425.8	372.4	453.1	27,796
484RF12	484	12*	7555	37,775	75,550	113,325	7.5	157.6	149.8	357.9	431.8	396.4	501.1	30,115

* Boltsafe only

RF Baghouse Collectors

Standard Features

- All-welded or knock-down construction:
  - 48-376 models - 10 gauge, minimum
  - 484 models - 3/16" dirty air plenum and 10 gauge clean air plenum
  - Heavy-duty 1/4" plate steel tubesheet
- Air pump (TEFC motor drive)
- 1/3 hp TEFC motor for manifold drive
- NEMA 9 pulse valve solenoid
- Involute scroll inlet with airflow straightener
- 60° hopper
- Grounded bag and cage system
- ±20 "wg housing rating
- Hopper manhole
- NEMA 4 pulse timer
- Magnehelic®* gauge
- 16 oz. polyester felt bags
- Galvanized bag cages
- Top handrail (RFT)
- Positive seal Boltsafe™ hardware
- Prime coated interior
- Blue exterior finish coating passes 250-hour salt spray corrosion performance test
- Round outlet (RFW)
- Rectangular outlet (RFT)

Equipment Options

- Explosion vents
- Tubular square steel support legs
- Caged ladder and platform per OSHA specifications
- Variety of special filter medias, including Tetratex®**
- Stainless steel construction
- Sprinkler taps
- Internal service light
- Photohelic®* gauge
- Finish coating for hostile environments
- Rectangular outlet (RFW)
- Round outlet (RFT)
- Snap-in bags (8' and 10' only)
- Custom paint colors
- Electrical control panels
- Hopper level indicator
- Hopper service port
- 3" hopper water overflow check valve
- Hopper outlet transitions
  2'-0" to 1'-8" dia. x 4 1/8" high
  2'-0" dia. to 1'-4" dia. x 7 5/8" high
  2'-0" dia. to 1' 0" dia. x 11" high
  2'-0" dia. to 10" dia. x 12 3/4" high
  2'-0" dia. to 8" dia. x 14 1/2" high
  2'-0" dia. to 1'-6" x 2'-0" rectangle x 5 15/16" high

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