

LP Baghouse Dust Collectors



LP Baghouse

Dependable, Reverse Air Round Baghouse

The Donaldson® Torit® LP baghouse dust collector provides superior filter bag cleaning performance in a reverse air design. The LP advantage is a cleaning arm with a flow-stop plate that keeps air from flowing through the filter bags before and after cleaning. Dust from cleaned filter bags cannot be re-entrained onto adjacent bags, resulting in lower pressure drop and reduced energy costs. Combine this with Dura-Life™ “Twice the Life” filter bags as standard and this LP baghouse is better than any other reverse air collector on the market today.

LPs Offer:

- **Flow-stop plate cleaning arm reduces dust re-entrainment**
- **Integrated helix in hopper reduces dust loading on filter bags**
- **Award winning Dura-Life™ “Twice the Life” filter bags**
- **Single inlet, outlet and hopper reduces ducting and hopper outlet costs**
- **LP cleaning provides a constant process airflow and fewer moving parts, which reduces maintenance and disruptions to system airflow**
- **LP cleaning system requires no compressed air**
- **Optional live bottom hopper grinds dusts to prevent bridging in hopper**

*Superior
Performance*

with

Dura-Life™

Twice The Life Filter Bags



The LP cleaning arm features a flow-stop plate, which stops the airflow through recently cleaned bags to reduce dust re-entrainment.

LP Baghouse

Dura-Life™ Filter Bag Technology

*Standard in All Donaldson Torit
LP Baghouse Collectors*

Dura-Life — A technology breakthrough for bag users.

Standard 16 oz. 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* filter 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 pulse cleaning. These advantages provide twice the operating life before bags need to be replaced due to high pressure drop. Longer life from Dura-Life filter 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 filter bags provide big benefits. Dura-Life technology provides better surface loading and better pulse cleaning, offering:



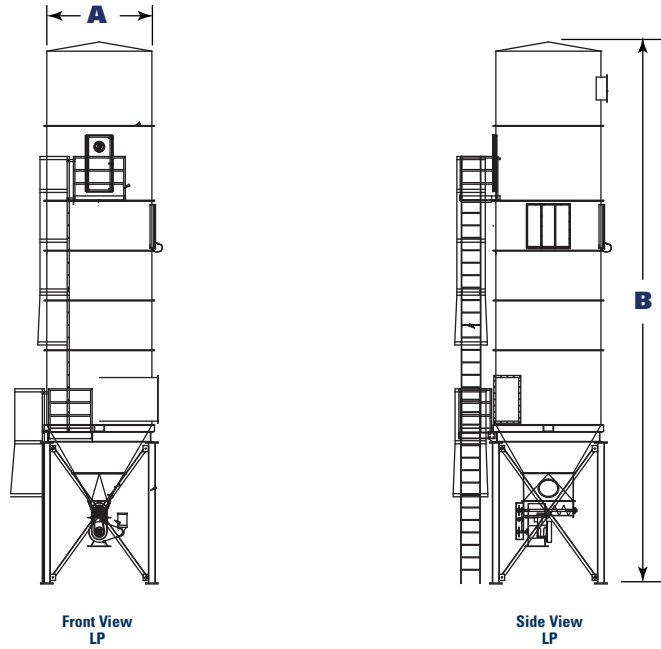
- **Two to three times longer filter bag life**
- **Energy savings due to lower pressure drop**
- **Reduced replacement bag costs due to fewer bag changeouts**
- **Reduced maintenance and operating costs due to fewer bag changeouts**
- **30% fewer emissions based on EPA tests**

* Dura-Life bags are made with Durapex® filter media manufactured by Polymer Group, Inc.

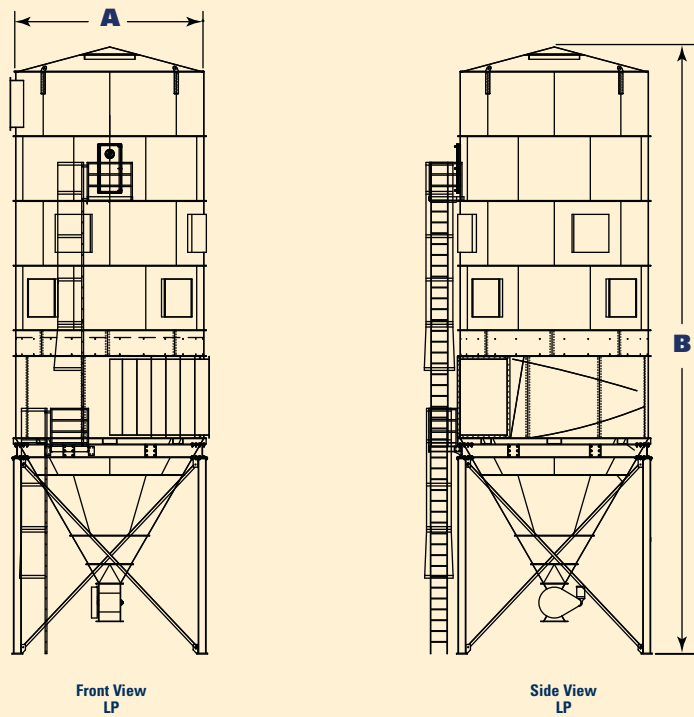
LP Baghouse

Dimensions & Specifications

Model LP-108*



Model LP-528**



* Model 108 LP show with optional live bottom hopper and rotary valve.

** Model 528 LP shown with optional rotary valve.

LP Baghouse

Dimensions & Specifications

Model	Nominal Airflow Range [†] (cfm)	Cloth Area (ft ²)	Length of Filter Bags (ft)	Cleaning Fan (hp)	Shipping Weight* (lbs)	Dimensions (inches)	
						A**	B**
72LP10	9,600	1,200	10	7.5	8,500	433.6	85.9
72LP12	11,520	1,440	12	7.5	9,000	481.6	85.9
108LP10	14,400	1,800	10	10	11,000	474.3	101.3
108LP12	17,280	2,160	12	10	14,000	522.3	101.3
150LP10	20,000	2,500	10	10	13,500	481.6	116.5
150LP12	24,000	3,000	12	10	14,500	529.6	116.5
198LP10	26,400	3,300	10	15	16,000	508.2	131.8
198LP12	31,680	3,960	12	15	17,000	556.2	131.8
252LP10	33,600	4,200	10	15	19,500	513.8	147.1
252LP12	40,320	5,040	12	15	21,000	561.8	147.1
312LP10	41,600	5,200	10	20	22,500	549.1	162.4
312LP12	49,920	6,240	12	20	24,000	597.1	162.4
378LP10	50,400	6,300	10	25	28,500	533.1	177.7
378LP12	60,480	7,560	12	25	30,000	581.1	177.7
450LP10	60,000	7,500	10	25	33,500	608.2	192.9
450LP12	72,000	9,000	12	25	35,500	656.2	192.9
528LP10	70,400	8,800	10	25	38,500	623.8	208.3
528LP12	84,480	10,560	12	25	41,000	671.8	208.3
594LP10	79,200	9,900	10	30	45,000	641.5	223.6
594LP12	95,040	11,880	12	30	48,000	689.5	223.6
684LP10	91,200	11,400	10	40	51,000	668.9	238.8
684LP12	109,440	13,680	12	40	53,500	716.9	238.8
780LP10	104,000	13,000	10	40	63,500	706.1	254.1
780LP12	124,800	15,600	12	40	67,000	754.1	254.1
882LP10	117,600	14,700	10	50	77,500	721.3	269.3
882LP12	141,120	17,640	12	50	82,500	769.3	269.3

[†] Based on clean filters.

* Legs included in weight.

** Dimensions should be used as general estimates. Height is based on unit with 36" clearance under hopper outlet pack. Be sure to look at dimensions after options are selected.



LP baghouse dust collectors can be equipped with bin houses to shelter 40 yard dumpsters and dust from adverse weather conditions. The bin houses come with ceiling-mounted leveling screws which evenly distribute dust throughout the entire dumpster.

LP Baghouse

Proven Performance on Hundreds of Applications



Dual 594LP12
at door plant
(180,000+ cfm/combined)



882LP12
at almond plant
(140,000 cfm/each)



Three 684LP12
at almond shelling plant
(100,000 cfm/each)



528LP12
at cabinet factory
(70,000 cfm)



Two 594LP12
at a cabinet plant
(80,000 cfm/each)



780LP12
at coal classifying plant
(75,000 cfm)

LP Baghouse

Standard Features & Equipment Options

	Standard	Optional
Collector Design		
Clean-Side Bag Removal	X	
Walk-In Clean Air Plenum	X	
10-Gauge Carbon Steel Construction	X	
Heavy-Duty 7 Gauge Plate Tubesheet	X	
Rated 17-inches Water Gauge	X	
Internal Sweep Arm Cleaning Mechanism	X	
Explosion-Proof Fan & Drive	X	
Aluminum Fan Wheel	X	
Flanged Inlet, Outlet and Body	X	
Easy-Lift Lifting Ears	X	
Tangential Inlet	X	
Service Platform & Ladder & Ladder Cages		X
Stainless Steel Construction		X
Bags & Cages		
Dura-Life Twice the Life Felt Snap-In Bag Filters	X	
Galvanized Snap-In Bag Cage	X	
Variety of Filter Bag Media Options		X
Paint System		
Prime Coated Interior	X	
Liquid Alkyd Finish Exterior	X	
Standard Colors: Torit Blue or Storm White	X	
Custom Colors		X

	Standard	Optional
Hopper Design		
60° Hoppers	X	
Flanged Hopper Discharge (per specification)	X	
Hopper Access Panel	X	
Coupling for High Level Indicator	X	
Lexan View Port	X	
High Level Indicator		X
Support Structure		
36" Clearance Leg Pack	X	
Custom Clearance Leg Packs		X
Electrical Controls, Gauges and Enclosures		
Magnehelic®* Gauge	X	
Photohelic®* Gauge		X
Photohelic®* Gauge (Weatherproof)		X
Safety Features		
Sprinkler Access Ports		X
Sprinkler Pack Assembly		X
Explosion Vents		X
Interior Light for Walk-In Plenum		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.

Cleaner Air Worldwide

Better Technology



- 550 engineers worldwide
- More than 500 patents
- Broad range of innovative collectors and filters
- 100's of media formulations

Experience & Service



- Technical expertise and support
- Ready-to-ship filters and parts within 24 hours
- 1,000,000+ dust, fume, & mist collectors installed

Global Support



- Facilities in 35 countries
- 37 manufacturing plants and 11 distribution centers
- Sales offices worldwide



Donaldson[®]

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