APPLIED CHEMICAL TECHNOLOGY

The World Leader In Process Engineering.

Pulse Jet Filter Baghouse Unit

All ACT pulse jet filters will effectively filter a variety of materials such as grain, metallurgical dusts, feed, coal, flour, cement, limestone, fly ash, sugar, and many chemical solids. ACT can provide assistance in selection of the proper system.

The filter bags are cleaned by the use of compressed air. Dust laden air enters the unit and passes through the filter media into the bag support cage, while the dust is retained on the exterior of the filter. The clean air flows up through the bag and exits through the venturi at the tube sheet and enters the clean air plenum.

Bag cleaning is controlled by an electrical timer which regulates the cleaning cycle of each row or multiple rows of bags. When the timer actuates, a diaphragm valve releases compressed air into a header pipe above a row of bags. The actuated duration of the diaphragm valve can be adjusted from 50-500 milliseconds. The off-time duration is also adjustable from 1.5-30 seconds or 8-180 seconds, depending upon the intensity of dust loading. As the burst of compressed air travels down the bag, the fabric and the dust are accelerated away from the cage. When the bag reaches its elastic limits, its movement is halted while inertia causes the dust to continue moving, thus separating it from the filter surface.

Custom Designs

ACT will custom design a baghouse to meet our customer's needs. Whether your needs are a custom fit for a low head room area, or a modular unit for installation in inaccessible areas, ACT will work with you to develop a suitable design.

Specifications and Dimensions (Single Unit)

SPECIFICATIONS AND DIMENSIONS (SINGLE UNIT)

UNIT SIZE	SQ.FT. CLOTH AREA	DIMENSIONS		
		HOUSING SQ.	OVERALL HT.	DISCHARGE
36-PJ-9	43	26	69 5/8	6
54-PJ-9	64		87 5/8	
72-PJ-9	85		105 5/8	
84-PJ-9	99		117 5/8	
96-PJ-9	113		129 5/8	
120-PJ-9	141		153 5/8	
144-PJ-9	170		177 5/8	
36-PJ-16	75	34 1/2	77	
54-PJ-16	113		95	
72-PJ-16	151		113	
84-PJ-16	176		125	
96-PJ-16	201		137	
120-PJ-16	251		161	
144-PJ-16	302		185	
36-PJ-25	118	43	82 5/8	8
54-PJ-25	177		100 5/8	
72-PJ-25	236		118 5/8	
84-PJ-25	275		130 5/8	
96-PJ-25	314		142 5/8	
120-PJ-25	393		166 5/8	
144-PJ-25	471		190 5/8	
36-PJ-36	170	51 1/2	88 1/4	10
54-PJ-36	254		106 1/4	
72-PJ-36	339		124 1/4	
84-PJ-36	396		136 1/4	
96-PJ-36	452		148 1/4	
120-PJ-36	565		172 1/4	
144-PJ-36	678		196 1/4	
36-PJ-49	231	60	95 5/8	
54-PJ-49	346		113 5/8	
72-PJ-49	462		131 5/8	
84-PJ-49	539		143 5/8	
96-PJ-49	616		155 5/8	
120-PJ-49	769		179 5/8	
144-PJ-49	923		203 5/8	

UNIT SIZE	SQ.FT. CLOTH AREA	DIMENSIONS		
		HOUSING SQ.	OVERALL HT.	DISCHARGE
36-PJ-64	302	68 1/2	103	10
54-PJ-64	452		121	
72-PJ-64	603		139	
84-PJ-64	704		151	
96-PJ-64	804		163	
120-PJ-64	1,005		187	
144-PJ-64	1,206		211	
36-PJ-81	382	77	110 1/4	
54-PJ-81	573		128 1/4	
72-PJ-81	763		146 1/4	
84-PJ-81	890		158 1/4	
96-PJ-81	1,018		170 1/4	
120-PJ-81	1,272		194 1/4	
144-PJ-81	1,526		218 1/4	
36-PJ-100	471	85 1/2	117 5/8	
54-PJ-100	607		135 5/8	
72-PJ-100	757		153 5/8	
84-PJ-100	1,099		165 5/8	
96-PJ-100	1,256		177 5/8	
120-PJ-100	1,570		201 5/8	
144-PJ-100	1,884		225 5/8	
36-PJ-144	678	102 1/2	132 3/8	
54-PJ-144	1,018		150 3/8	
72-PJ-144	1,357		168 3/8	
84-PJ-144	1,583		180 3/8	
96-PJ-144	1,809		192 3/8	
120-PJ-144	2,261		216 3/8	
144-PJ-144	2,713		240 3/8	

Contact Information

To find out more about our services or to discuss your project with an ACT engineer, you may contact Applied Chemical Technology by phone, fax, or email. All initial consultations are strictly confidential and free of charge.

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