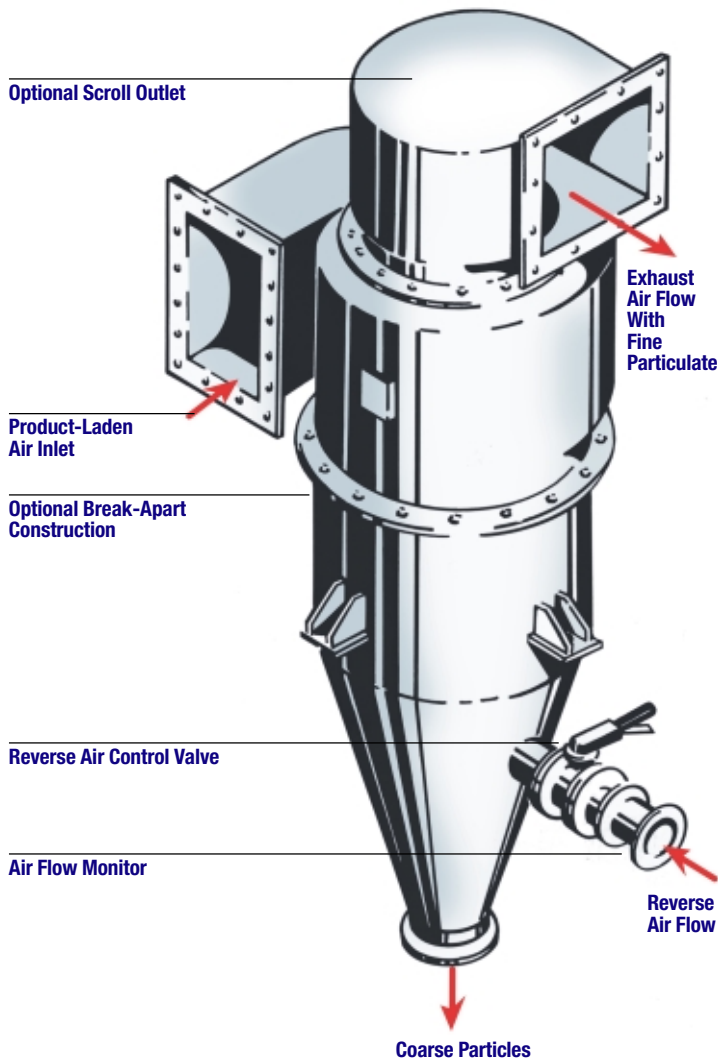




Fisher-Klosterman, Inc.



The **EX Series Aerodynamic Particle Classifier** is intended for the separation of powdered products into two or more fractions based on particle size. It can be used for simple de-dusting of granular products or for a more specific separation of a powdered material into two different coarse and fine products.

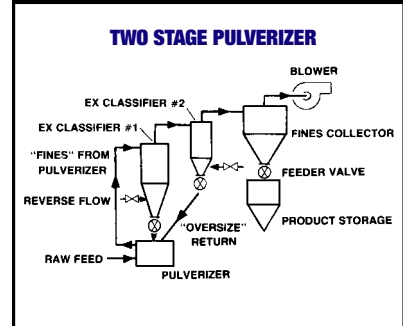
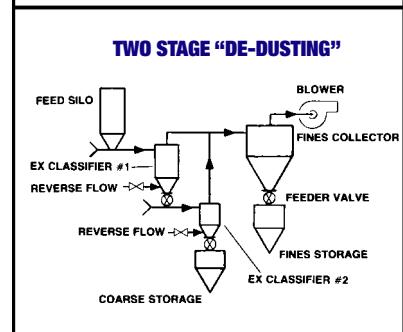
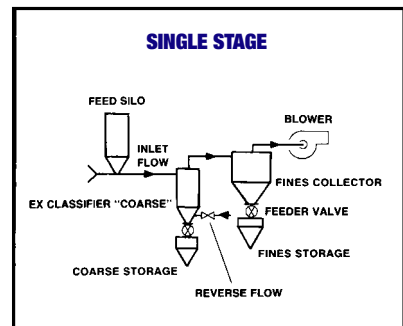
Aerodynamic classification offers distinct advantages from a standpoint of economy and processing requirements. For products which are small in size (300 microns and less), aerodynamic classification is more practical than mechanical screens and has greater processing capacity than rotary type classifiers. The EX Series Classifier also offers instant changes in the product classification through simple external adjustments.

HOW THEY WORK

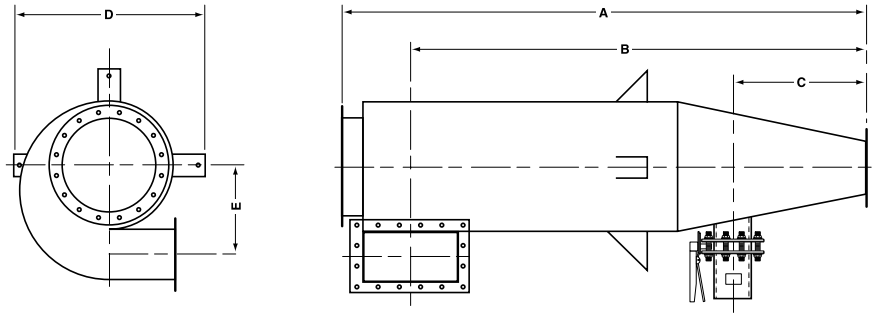
The **EX Series Aerodynamic Classifier** takes advantage of the principle that particles of different sizes, shapes, or specific gravities can be separated through the use of an upward flow of air, sometimes referred to as elutriation. The powder to be classified is pneumatically conveyed into the classifier where it is collected and transferred into a fluidized zone where classification takes place. The fluidizing air stream is introduced into the lower portion of the classifier and the upward flow carries the fine fraction

of the powder out of the top of the classifier and into a final collector. The coarse fraction of the powder is discharged out the bottom of the classifier through an optional airlock device or into a sealed container. The degree of classification is determined by the amount of reverse flow, inlet air volume, collector type and size and the specific characteristics of the material to be separated.

CLASSIFIER SYSTEM SCHEMATICS



Product Bulletin



SIZE	GAS FLOW RATE ^① (ACFM)	TYPICAL PRODUCT FEED RATE ^② (#/HR)	Type L (2 – 300 Micron)					Type S (1 – 100 Micron)				
			MOUNTING ^③					MOUNTING ^③				
			A	B	C	D	E	A	B	C	D	E
4	150	250	23 ¹ / ₄	19 ¹ / ₄	5 ¹ / ₂	10	3 ⁷ / ₈	44 ¹ / ₂	40 ¹ / ₂	11 ¹ / ₂	15	6 ¹ / ₂
6	320	550	34	29	7 ¹ / ₂	13	5 ⁵ / ₈	68	61	19 ¹ / ₂	21	9 ⁵ / ₈
8	550	950	44 ¹ / ₂	38 ¹ / ₂	11 ¹ / ₂	15	7 ¹ / ₂	89	81	27	28	12 ³ / ₄
12	1,250	2,150	68	58	17	21	11 ¹ / ₈	132	122	41	39	19 ¹ / ₈
20	3,500	6,000	111	97	30	33	18 ³ / ₈	217	203	70	62	31 ⁵ / ₈
30	7,850	13,450	164	145	48	49	27 ⁵ / ₈	324	305	110	93	47 ³ / ₄
48	20,000	34,300	260	232	80	77	44 ¹ / ₄	—	—	—	—	—

① Gas flows are nominal. Flows will vary depending on individual application requirements.

② Feed rates listed are for general guidelines only. Actual rates may vary significantly depending on material characteristics and desired classification.

③ Dimensions are approximate and will vary with metal thickness required.

NOTE: Sizes available for most applications. Consult factory for sizes not listed.

FEATURES AND HIGHLIGHTS

- No internal moving parts – low maintenance
- Wide range of operation
- Ease of adjustment – final product can be “fine tuned” without interrupting operation
- Easy to clean – can be provided with quick disconnect “break-apart” flanges for disassembly and cleaning
- Available in carbon or stainless steels, abrasion resistant materials or linings, food and pharmaceutical grade finishes
- Custom engineered – each EX Aerodynamic Classifier or complete classification system is selected and engineered for the specific application

TYPICAL APPLICATIONS

- Food products
- Pharmaceuticals
- Minerals/mining
- Chemicals
- Plastics
- Atomized metals
- Grit blasting

TYPICAL OPTIONS

- Access doors
- Flanged construction
- Dust receivers and storage hoppers
- Discharge valves
- Feed hoppers
- Final dust collectors
- Fans and ductwork
- Automated controls
- Complete engineered systems

Locally Represented By:

EX SERIES CLASSIFIERS ARE AVAILABLE IN TWO BASIC MODELS

- **Type L** for large 2 – 300 microns particle size
- **Type S** for small particulates, generally 1 – 100 microns particle size

To help determine the suitability of the **EX Series Classifier** for a particular application, Fisher-Klosterman, Inc. maintains an in-house laboratory and pilot testing facility. Testing of customer material is required prior to final equipment selection.

Fisher-Klosterman, Inc. is a full service provider of equipment, systems, services, and supplies for air pollution control, dust collection and product recovery. Please call to request additional information about our complete offerings.



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