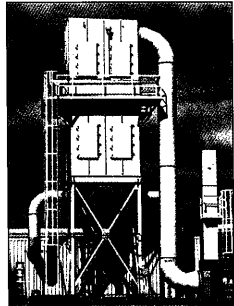
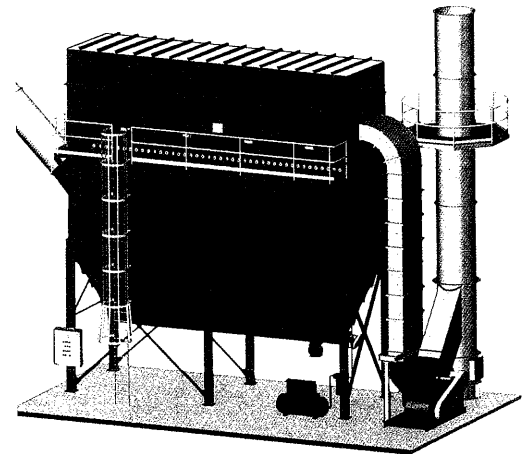


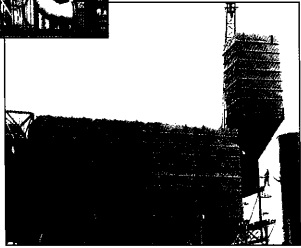
Complete Dust Collection Systems

Dust Collection Solutions For A Cleaner Environment



Dust Collection Applications

- Pneumatic Conveying
- Bulk Transport
- Product Loadout Systems
- Bin Vent Systems
- Down Draft Work Benches
- Air Filtration



Dust Collection Markets

- | | |
|-----------------------|-------------------|
| • Grain Milling | • Utilities |
| • Food Processing | • Pharmaceuticals |
| • Steel Foundries | • Paint |
| • Chemical Processing | • Mining |
| • Cement | • Textiles |
| • Rubber | • Petrochemicals |
| • Plastics | • Wood |



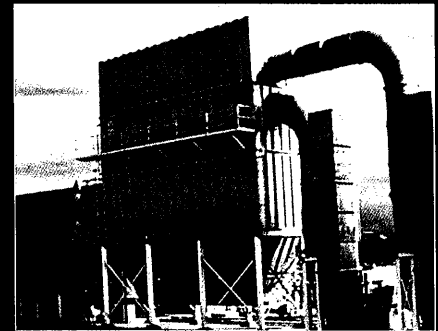
Whatever The Application, Airtrol Delivers

Power (Electric Utilities)

Application: Coal and Limestone
 Size of Contract: Five (5) Systems/150,000 CFM Total

Scope Of Supply

- | | | | |
|---|-----|-------------------------|-----|
| • Dust Collector | Yes | • Electrical Design | Yes |
| • Accessories: Fan, Airlock, Screw Conveyor | Yes | • Electrical Supply | Yes |
| • Foundation Loadings | Yes | • Compressed Air Design | Yes |
| • Ductwork Design | Yes | • Compressed Air Supply | Yes |
| • Ductwork Supply | Yes | • HVAC | Yes |
| | | • Installation | Yes |

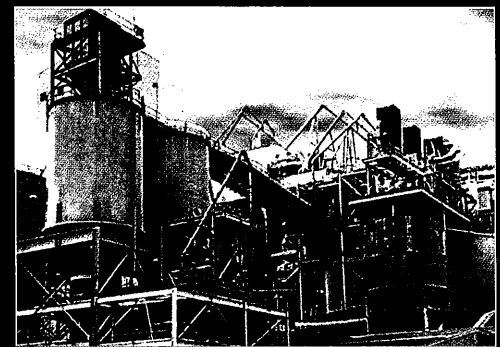


Minerals (Cement)

Application: Cement and Lime
 Size of Contract: Eighteen (18) Systems/146,000 CFM Total

Scope Of Supply

- | | | | |
|---|-----|-------------------------|-----|
| • Dust Collector | Yes | • Electrical Design | Yes |
| • Accessories: Fan, Airlock, Screw Conveyor | Yes | • Electrical Supply | Yes |
| • Foundation Loadings | Yes | • Compressed Air Design | Yes |
| • Ductwork Design | Yes | • Compressed Air Supply | Yes |
| • Ductwork Supply | Yes | • HVAC | No |
| | | • Installation | Yes |

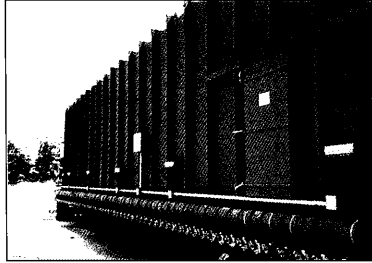


Airtrol Advantages

Factory Assembly

Airtrol pre-pipes and pre-wires the diaphragm valves, solenoid valves, and timer box.

Benefit: Your installation time is reduced, the installation is correct, and the cleaning system operates properly as soon as the dust collector is commissioned.



Heavy Stiffening

Airtrol's structural design is the heaviest in the industry with 3" minimum vertical stiffeners on 24" maximum centers, horizontal girth channel as required by the application, and heavy structural legs.

Benefit: Your dust collector will withstand any applicable loads (wind, seismic, etc.) and the reinforced housing will not flex during operation.



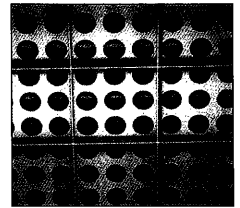
Weatherproof Construction

Collector utilizes an all welded construction. All vertical stiffeners are stitch welded and caulked (standard white RTV Silicone caulk) prior to painting.



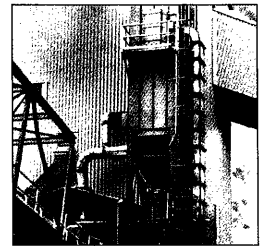
Superior Quality Tubesheet Design

Minimum 3/16" thick tubesheet is reinforced with 1/2" x 4" flatbar between every third bag hole to eliminate deflection. Bag holes are precision laser cut to +.008" tolerance to assure proper bag fit.



Customized Structural Steel

Airtrol will design and supply structural steel to provide the clearance as required by the customer's application. Necessary access and service platforms can also be provided.

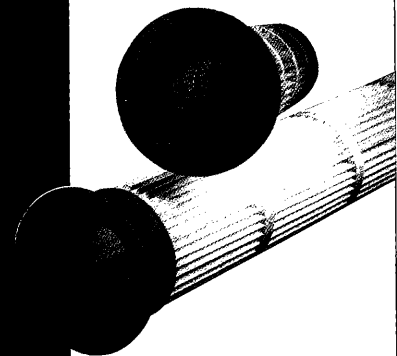
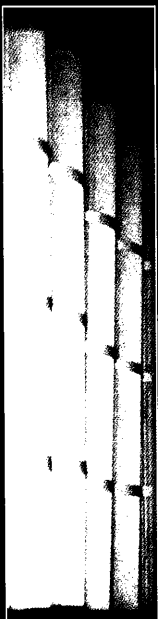


Dust Collector Types

Air Pleat® - Pulse Jet Pleated Element Dust Collectors

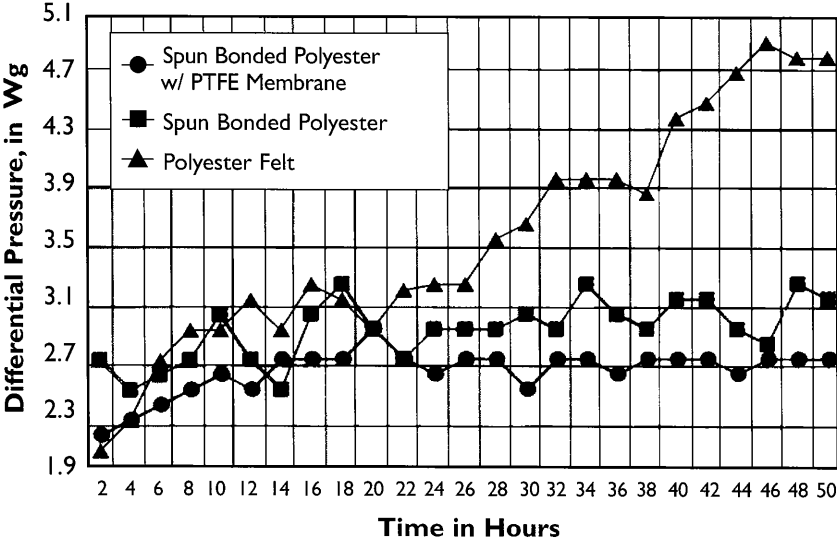
Features and Benefits

- 100% spun bonded polyester media with 99.99+% filtering efficiency and less than half the emissions rate of standard felt media.
- One-piece design eliminates bags and cages and reduces installation time substantially.
- Spun bonded filter element has a filtration surface area 3-4 times more than a similar sized traditional filter bag.
- The standard resilient urethane top ensures a superior fit for a dusttight seal, compared to traditional snap band top and bottom load bag collectors.
- Specialty finishes available including PTFE membrane.
- Surface filtration reduces operating pressure differential. Typical operating ΔP is 2-4" wg.
- Requires lower compressed air pressure to clean. Typical operating pressure is 50-70 psig.
- Shorter length keeps the bottom of the element higher above the inlet gas stream, therefore reducing the potential for abrasion problems.

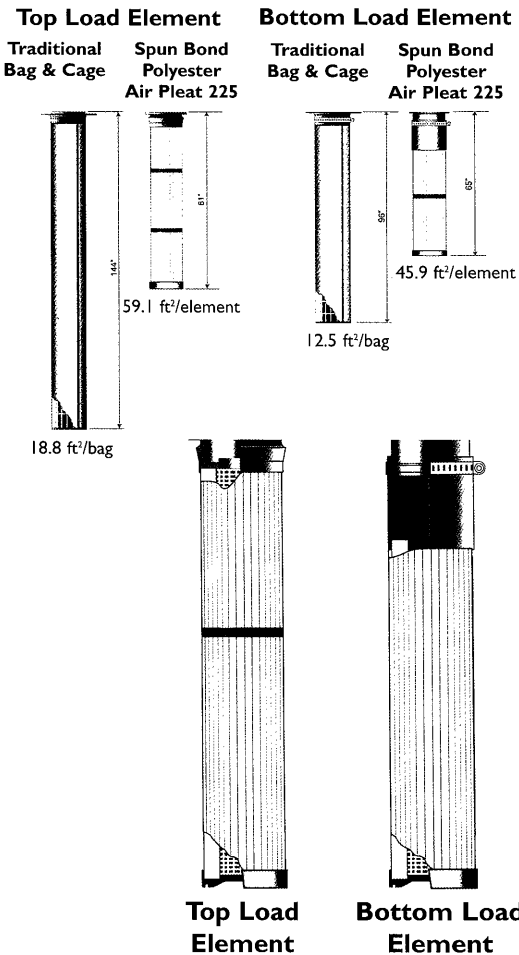


Air Pleat® Technical Data

Differential Pressure



Typical Size Comparison



Standard Construction Features

- Nominal 6 1/4" diameter with other diameters available
- 100% spun bonded polyester media used for Air Pleat 180, 225, 265 elements
- Molded urethane top and bottom construction on Air Pleat 180 and 225 elements
- High temperature media used for Air Pleat 375 elements
- Wide open pleat spacing and shallow pleat depth
- High filtration efficiency
- Polypropylene or perforated metal inner core
- Metal top and bottom on Air Pleat 265 and 375 elements

Available Media

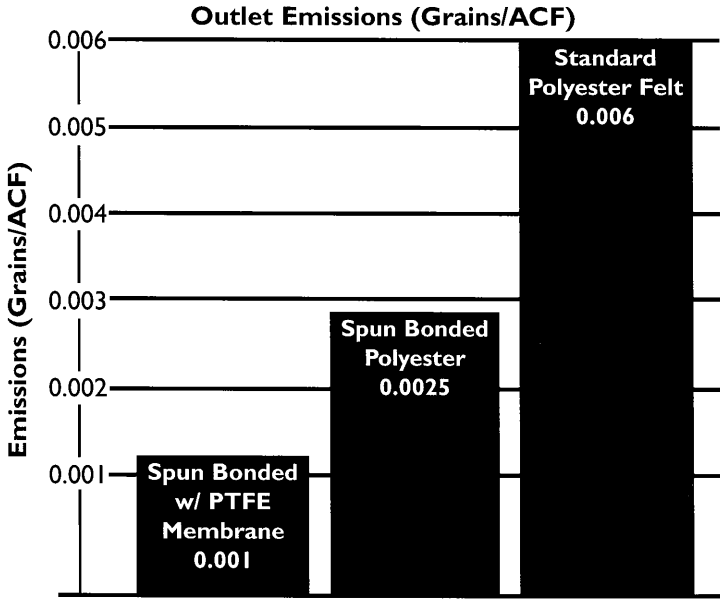
- PE806 White polyester (standard)
- PE807 Metalized finish (static dissipation)
- PE806TR Oil/water repellent finish
- QP840 PTFE membrane bonded to white polyester (PE806)
- PE810 Polyester with conductive impregnation
- QP810 PTFE membrane on polyester with conductive impregnation

Construction Options

- Higher temperature components
- Various lengths from 18" to 81" long
- Special pleat counts

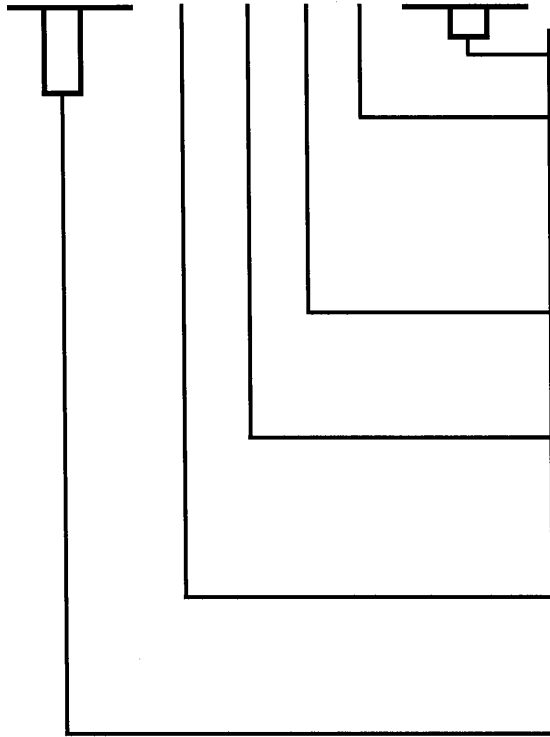
Temperature Options

- Air Pleat® 180 - maximum 180° F (83° C)
- Air Pleat® 225 - maximum 225° F (107° C)
- Air Pleat® 265 - maximum 265° F (130° C)
- Air Pleat® 375 - maximum 375° F (190° C)



Airtrol Model Number Designations

XXXX### (I.e. 144BSWS120)



Length of filters (bags, pleated elements, cartridges), inches

- S - Hopper Inlet
- H - High Side Plenum Inlet
- T - Tangential Inlet w/Cyclonic Ring
- F - Bin Vent
- I - Insertable

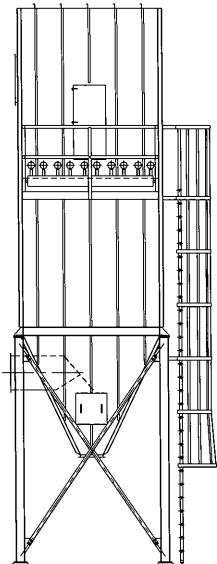
- S - Side Access through Dirty Air Plenum
- R - Top Access through Roof Doors
- W - Top Access through Walk-In Clean Air Plenum

- S - Square or Rectangular
- R - Round
- D - ASME Code Bag and Cage
- X - Special

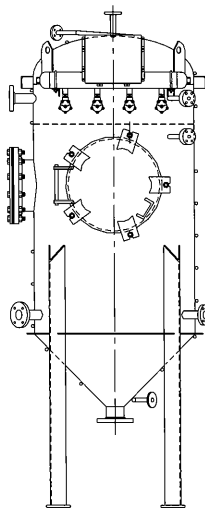
- B - Bag and Cage Filters
- P - Pleated Element Filters
- C - Cartridge Filters

Quantity of filtration media (bags, pleated elements, cartridges)

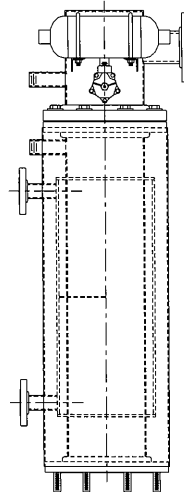
Style of Dust Collector



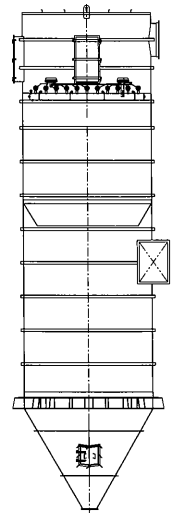
S - Square or Rectangular



D - ASME



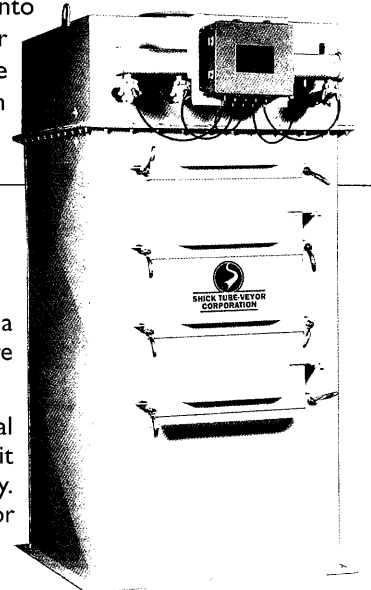
X - Special



R - Round

Auto-Jet Dust Collectors

Shick Tube-Veyor Corporation's full line of Auto-Jet Dust Collectors are designed to effectively separate pneumatic conveyed products from a pressure air stream. Dust infused air enters the unit and passes through a filter bag housing to the clean air plenum and then is expelled near the top of the unit. An electric timer sequentially activates valves which direct a concise burst of compressed air into the bags causing accumulated dust to be released from the bags and fall into the vessel. In addition to reducing facility maintenance requirements, Shick's Auto-Jet Dust Collector will help companies meet stringent air quality regulation and employee safety requirements. These Auto-Jet units are available in a wide range of bag lengths and filtering materials depending on material characteristics. Auto-Jet units can be mounted on a variety of storage vessels.



Features

Clean Air Plenum - Includes mounting flange at tube sheet, lifting lugs, compressed air header with 1" pipe coupling for pressure gauge. 1" pipe coupling for plant air and 1/4" pipe coupling for drain, and diaphragm valves.

Timer Box - Includes pre-wired timer board with adjustable timer for 120 VAC, single phase, 60 hertz and includes solenoid valves. (Other voltages available upon request.)

Bag Housing - Equipped with mating flange at top and bottom, safety grate, and access door.

Nema - 4 and 9 standard, 4X and 7 available.

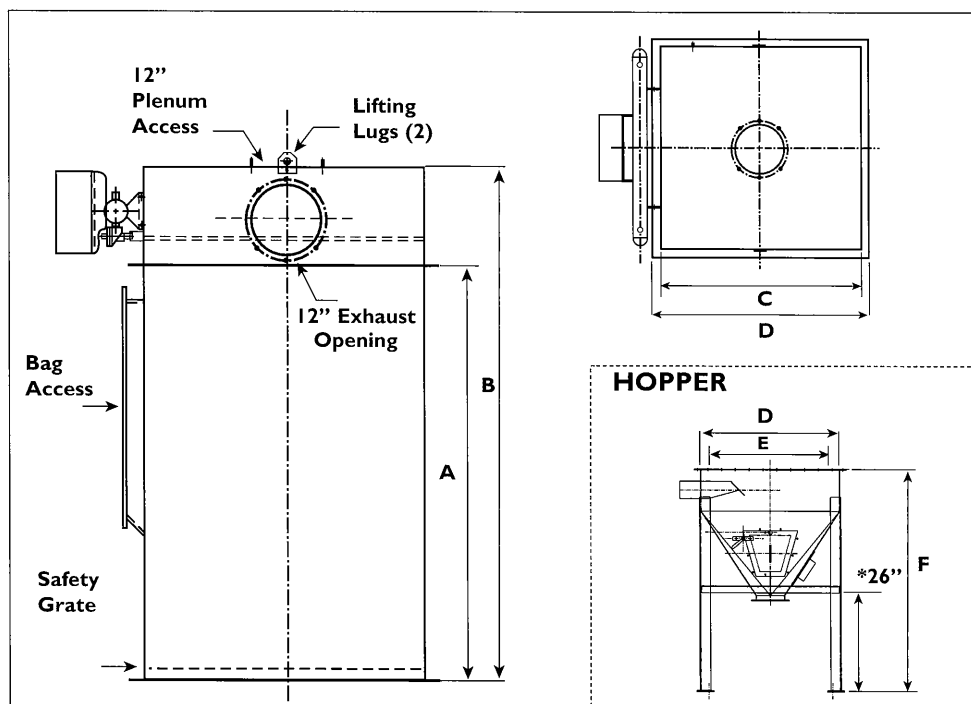
Material of Construction - 12 GA, ASTM 569 carbon steel or ASTM A240 304 stainless steel sheet metal (in material contact or all stainless options.)

Gauges - Supplied with a 0-200 p.s.i.g. gauge and pressure differential gauge (standard).

Carbon Finishes - Internal welds are ground to a 36 grit finish on weld seams only. Internal finish is clear phenolic or epoxy. External paint is primed with white enamel finish coat.

Stainless Steel Finishes - Interior welds ground to a 80 grit finish with no cracks, pits or crevices, hard wheel finish on weld seams only. Exterior welds to be cleaned. Sheet is a 2B mill finish.

Schematics



SECTION 9 • DUST COLLECTION & AIR FILTRATION

Auto-Jet Dust Collectors *(continued)*

Options For

Bags:

- 16 oz. polyester (standard)
- 16 oz. polyester with ground wire
- 22 oz. polyester
- BHA Tex™ PTFE membrane

Finish:

Stainless: 4B finish sheet with interior welds ground to a 150 grit finish.

Attachments

Consider the following attachments:

1. Hopper with legs
2. Air exhaust screen for outdoor/indoor applications
3. Flanged stub transition
4. Fan with bracket
5. Pressure differential switch

Dimensions - Hopper

Model No.	C	D	F
AJ-9	24/610	28/711	49/1245
AJ-16	32/812	36/914	56/1422
AJ-25	40/1016	44/1117	63/1600
AJ-36	48/1219	52/1321	76/1930
AJ-49	56/1422	60/1524	83/2108
AJ-64	64/1626	68/1727	90/2286

* 26" height is based on 8" discharge and will vary with the size of the discharge.

Dimensions - Unit

Model No.	Cloth Area Sq. Ft.	No. of bags	Comp. Air Req'd (SCFM)	A inch/mm	B inch/mm	C inch/mm	D inch/mm	E inch/mm	Wt.** Lb./Kg.
18AJ-2	4.5	2	3.0	29/737	43/1092	8/203	12/305	18/457	220/100
36AJ-2	9.0	2	3.5	47/1194	63/1600	8/203	12/305	18/457	260/118
36AJ-9	41	9	4.2	47/1194	63/1600	24/610	28/711	24/610	350/159
58AJ-9	66	9	4.5	69/1753	84/2134	24/610	28/711	24/610	450/204
84AJ-9	95	9	5.0	96/2438	112/2845	24/610	28/711	24/610	525/238
36AJ-16	72	16	5.5	47/1194	63/1600	32/813	36/914	32/813	500/227
58AJ-16	116	16	5.8	69/1753	85/2159	32/813	36/914	32/813	625/283
84AJ-16	168	16	6.2	96/2438	112/2845	32/813	36/914	32/813	750/340
36AJ-25	112	25	6.5	47/1194	63/1600	40/1016	44/1118	40/1016	650/295
58AJ-25	182	25	6.7	69/1753	85/2159	40/1016	44/1118	40/1016	800/363
84AJ-25	263	25	7.0	96/2438	112/2845	40/1016	44/1118	40/1016	875/442
36AJ-36	163	36	7.5	47/1194	63/1600	48/1219	52/1321	48/1219	850/386
58AJ-36	262	36	8.0	69/1753	85/2159	48/1219	52/1321	48/1219	925/420
84AJ-36	379	36	8.5	96/2438	112/2845	48/1219	52/1321	48/1219	1000/454
36AJ-49	221	49	8.5	47/1194	63/1600	56/1422	60/1524	56/1422	980/444
58AJ-49	356	49	9.0	69/1753	85/2159	56/1422	60/1524	56/1422	1075/488
84AJ-49	516	49	9.5	96/2438	112/2845	56/1422	60/1524	56/1422	1150/522
36AJ-64	289	64	10.0	47/1194	63/1600	64/1626	68/1727	64/1626	1120/508
58AJ-64	465	64	11.0	69/1753	85/2159	64/1626	68/1727	64/1626	1280/580
84AJ-64	674	64	11.5	96/2438	112/2845	64/1626	68/1727	64/1626	1400/635

** All weights are for carbon steel units and are nominal.

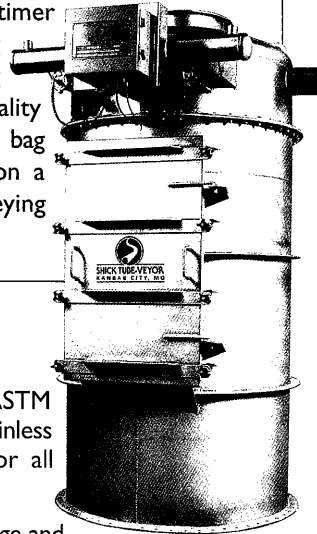
Information on this page is subject to change without notice. Please call for additional information on this and other Shick Tube-Veyor products and services.

Notes

1. Dimension includes tubesheet thickness.
2. NEMA 9 units are shipped with polyester bags with stainless steel ground wire and metal bag cups.
3. Two bags units are not supplied with safety grate.
4. Bags, cages and clamps shipped separately for field installation.
5. Hopper is 60°.
6. AJ-36 Units and above are provided with double bag housing access doors.

Hi-Vac Dust Collectors

Shick Tube-Veyor Corporation's full line of High-Vac Dust Collectors are designed to effectively separate pneumatic conveyed products from a vacuum air stream. Dust infused air enters the unit and passes through a filter bag housing to the clean air plenum and then the clean air is expelled near the top of the unit. An electric timer sequentially activates valves which direct a concise burst of compressed air into the bags causing accumulated dust to be released from the bags and fall into the vessel. In addition to reducing facility maintenance requirements, Shick's High-Vac Dust Collector will help companies meet air quality regulation and employee safety requirements, These High-Vac units are available in a wide range of bag lengths and filtering materials depending on material characteristics. High-Vac units can be mounted on a variety of storage vessels and the cylindrical, reinforced design is suitable for vacuum conveying applications up to 17" Hg.



Features

Clean Air Plenum - Includes mounting flange at tube sheet, lifting lugs, compressed air header with 1" pipe coupling for pressure gauge. 1" pipe coupling for plant air and 1/4" pipe coupling for drain, and diaphragm valves.

Timer Box - Includes pre-wired timer board with adjustable timer for 120 VAC, single phase, 60 hertz and includes solenoid valves. (Other voltages available upon request.)

Bag Housing - Equipped with mating flange at top and bottom, safety grate, and access door.

Nema - 4 and 9 standard, 4X and 7 available.

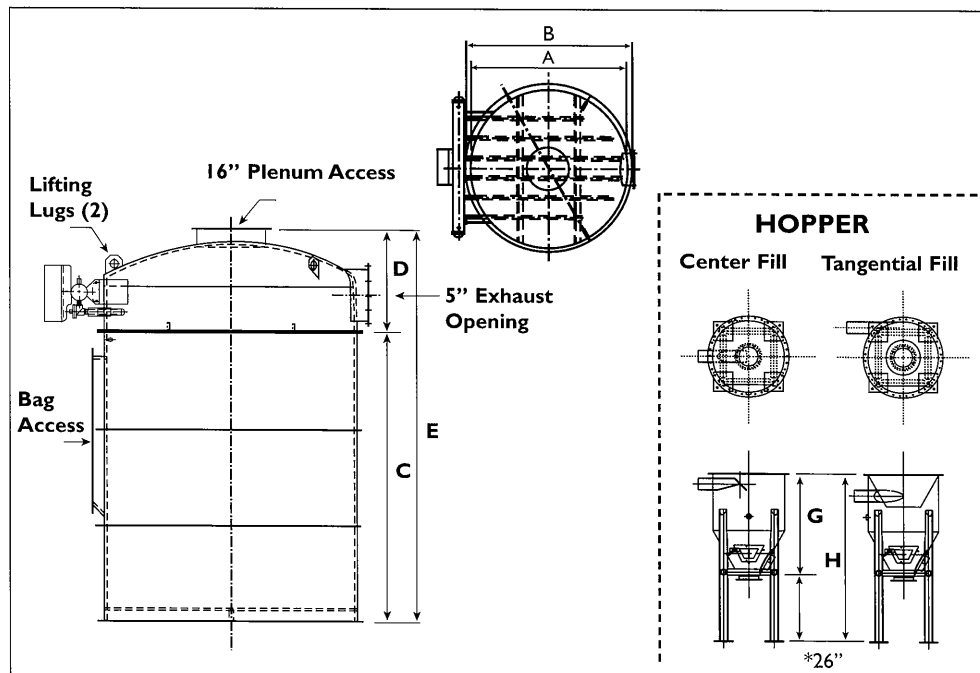
Material of Construction - 12 GA, ASTM 569 carbon steel or ASTM A240 304 stainless steel sheet metal (in material contact or all stainless options.)

Gauges - Supplied with a 0-200 p.s.i.g. gauge and pressure differential gauge (standard).

Carbon Finishes - Internal welds are ground to a 36 grit finish on weld seams only. Internal finish is clear phenolic or epoxy. External paint is primed with white enamel finish coat.

Stainless steel Finishes - Interior welds ground to a 80 grit finish with no cracks, pits or crevices, hard wheel finish on weld seams only. Exterior welds to be cleaned. Sheet is a 2B mill finish.

Schematics



Hi-Vac Dust Collectors *(continued)*

Options For

Bags:

- 16 oz. polyester (standard)
- 16 oz. polyester with ground wire
- 22 oz. polyester
- BHA Tex™ PTFE membrane

Finish:

Stainless: 4B finish sheet with interior welds ground to a 150 grit finish.

Attachments

Consider the following attachments:

1. Hopper with legs
2. Stub transition
3. Fan with bracket
4. Pressure differential switch

Notes

1. Dimension includes tubesheet thickness.
2. NEMA 9 units are shipped with polyester bags with stainless steel ground wire and metal bag cups.
3. Bags, cages and clamps shipped separately for field installation.
4. Hopper is 60°.
5. HV-24 Units and above are provided with double bag housing access doors.

Dimensions - Hopper

Model No.	G inch/ mm	H inch/ mm
HV-8	44.625/1133	70.625/1794
HV-14	49.5/1257	75.5/1918
HV-18	54.75/1391	80.75/2051
HV-24	60.25/1530	86.25/2191
HV-30	65.5/1664	91.5/2324
HV-38	70.75/1797	96.75/2457
HV-46	76/1930	102/2591
HV-54	81.25/2064	107.25/2724
HV-64	86.5/2197	112.5/2858
HV-74	91.75/2330	117.75/2991

* 26" height is based on 8" discharge and will vary with the size of the discharge.

Dimensions - Unit

Model No.	Cloth Area Sq. Ft.	No. of bags	Comp. Air (SCFM)	A inch/mm	B inch/mm	C inch/mm	D inch/mm	E inch/mm	Wt.** Lb./Kg.
18HV-8	18	8	4	30/762	34/1864	29/737	20.75/527	49.75/1264	200/91
36HV-8	36	8	4.1	30/762	34/1864	47/1194	20.75/527	67.75/1721	215/98
58HV-8	58	8	4.5	30/762	34/1864	69/1753	20.75/527	89.75/2280	220/100
84HV-8	84	8	5.0	30/762	34/1864	96/2438	20.75/527	116.75/2965	230/104
36HV-14	63	14	4.0	36/914	40/1016	47/1194	21.50/546	68.50/1740	275/125
58HV-14	102	14	5.5	36/914	40/1016	69/1753	21.50/546	90.50/2299	320/145
84HV-14	147	14	5.8	36/914	40/1016	96/2438	21.50/546	117.50/2985	370/168
36HV-18	81	18	5.5	42/1067	46/1168	47/1194	22.19/564	69.19/1757	300/136
58HV-18	131	18	6.0	42/1067	46/1168	69/1753	22.19/564	84.19/2138	375/170
84HV-18	190	18	6.5	42/1067	46/1168	96/2438	22.19/564	118.19/3002	425/193
58HV-24	175	24	6.7	48/1219	52/1321	69/1753	22.75/578	91.75/2330	475/215
84HV-24	253	24	7.0	48/1219	52/1321	96/2438	22.75/578	118.75/3016	530/240
58HV-30	218	30	7.5	54/1372	58/1473	69/1753	23.75/603	92.75/2356	500/227
84HV-30	316	30	7.8	54/1372	58/1473	96/2438	23.75/603	119.75/3042	675/306
58HV-38	276	38	8.0	60/1524	64/1626	69/1753	24.50/622	93.50/2375	680/308
84HV-38	400	38	8.5	60/1524	64/1626	96/2438	24.50/622	120.50/3061	750/340
58HV-46	335	46	9.0	66/1676	70/1778	69/1753	25.50/648	94.50/2400	800/363
84HV-46	484	46	9.5	66/1676	70/1778	96/2438	25.50/648	121.50/3086	910/413
58HV-54	393	54	10.5	72/1829	76/1930	69/1753	26.25/668	95.25/2419	950/431
84HV-54	569	54	11.0	72/1829	76/1930	96/2438	26.25/668	122.25/3105	1100/499
58HV-64	466	64	11.0	78/1981	82/2083	69/1753	27/686	96/2438	1275/578
84HV-64	674	64	11.5	78/1981	82/2083	96/2438	27/686	123/3124	1410/640
58HV-74	538	74	12.5	84/2134	88/2235	69/1753	27.88/708	96.86/2460	1475/669
84HV-74	780	74	13.5	84/2134	88/2235	96/2438	27.88/708	123.86/3146	1650/748

** All weights are for carbon steel units and are nominal.

Information on this page is subject to change without notice. Please call for additional information on this and other Shick Tube-Veyor products and services.

Dust Filtration Bags

Fiber Reference Chart					
FIBER	Acid Resistance	Alkali Resistance	Recommended safe temperature limit	Resistance to Mildew	Characteristics (Dry Filtration)
Cotton	Poor	Fair	210° F	Poor	General application up to 210°F in neutral conditions.
Nylon	Fair	Excellent	275° F	Excellent	Excellent mechanical resistance.
Dacron Polyester	Very Good	Good	300° F	Excellent	High temperature resistance. High tensile strength and mechanical resistance. Excellent dimensional stability.
Polypropylene	Excellent	Excellent	200° F	Not attacked by Mildew	Excellent resistance to most acids and alkalis. Limited resistance to high temperature. Good resistance to sunlight and abrasion.
"Nomex" Nylon	Fair	Excellent	475° F	Excellent	Excellent resistance to high temperature. High tensile strength and mechanical resistance.

Bags & Sleeves

Dust Filtration Bags

- All OEM Applications
- 12 oz. & 16 oz. Polyester Felt
- Singed, Eggshell and Plain Finishes – Single and Double Sided
- Additional Felts Available Upon Request
- Specialty Fabrics - Nomex®, and Tetratex®
- Automated Fabrication & Superior Quality
- Short Lead Times



Fabrication Capabilities

- All Types of Seaming Lapseam, Frenchfold, Serged, Per Specifications
- Circle Closed
- Pillowcase Closed
- Hanger Loops
- Serging
- Grommeting
- Tabs
- Support rings
- Shockcord or Elastic in Hems
- Drawstring
- Ground Wire
- Zippers
- Velcro
- Quilting
- Custom Fabrication

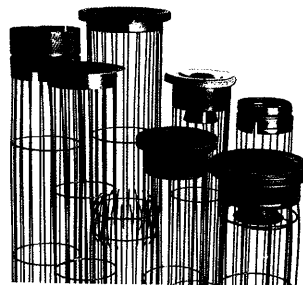
Bags, Sleeves & Transitions

- Vent/Relief Bags
- Load Out Bags
- Material Handling Sleeves
- Standard Sifting & Transition Sleeves
- Diverse Selection of Materials & Fabrication Capabilities
- Custom-Made to Customer Specifications

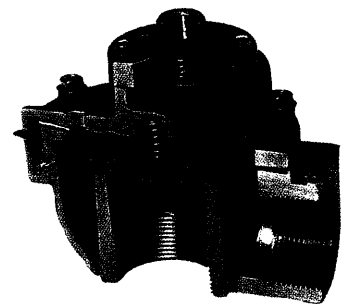
Replacement Parts



Pressure Gauges



Bag Cages



Diaphragm Valves

American Warming & Ventilating Dampers

Nearly a century of dedication to quality products and customer satisfaction has enabled American Warming & Ventilating to become an industry leader in the design and manufacture of industrial and heavy duty dampers.

A division of MESTEK, Inc., American Warming and Ventilating is backed by the finest collection of Engineers and state of the art production equipment to provide the exact damper model for your particular requirements.

We have designed dampers to operate in temperatures from 80° F. to 1800° F. Pressures to 60 psi, velocities to 10,000 fpm.

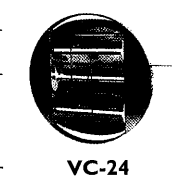
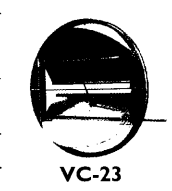
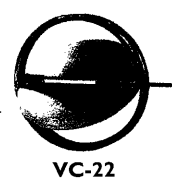
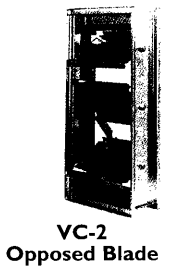
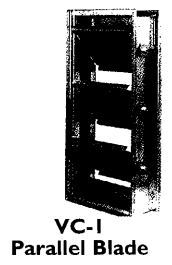
Clean air to highly corrosive and abrasive.

Our designs include nuclear and fossil power station dampers for use in baghouses, precipitators, scrubbers, boilers, air preheaters, gas turbine inlet and exhaust. We have also designed dampers for use in steel, aluminum and paper mills, cement plants, refineries, subways, tunnel, aircraft and submarines.

Regardless of the applications, you can rely on American Warming and Ventilating to develop practical, reliable, economical solutions to your most demanding needs. Let us put our design knowledge to work for you on your next project.

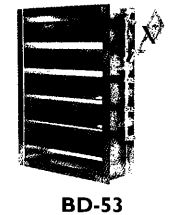
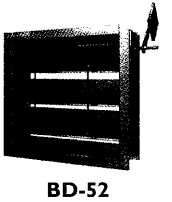
Quick Reference Index

MODEL	DESCRIPTION	MAX. FACE VELOCITY	MAX. PRESSURE	MAX. TEMPERATURE
VOLUME CONTROL • RECTANGULAR IN-DUCT MOUNT				
VC-1 (Parallel)	Hat channel frame, single thk. blades, galv. steel constr.	2000 fpm (10 m/s)	4 in. wg (1000 Pa)	200°F (95°C) w/o seals
VC-2 (Opposed)		3000 fpm (15 m/s)		
VC-8 (Rectangular)	Hat channel frame, single thk. blades, balancing damper, galv. steel const., low pressure, low velocity.	1500 fpm (8 m/s)	1 in. wg (250 Pa)	150°F (65°C)
VC-20 (Parallel)	Hat channel frame, single thk. blades, galv. steel constr.	3000 fpm (15 m/s)	2 in. wg (500 Pa)	200°F (95°C) w/o seals 150°F (65°C) w/ seals
VC-21 (Opposed)				
VC-26 (Parallel)	Hat channel frame, low leakage airfoil blades, galv. steel constr.	4000 fpm (20 m/s)	6 in. wg (1500 Pa)	150°F (65°C)
VC-27 (Opposed)				
VC-28 (Parallel)	Hat channel frame, airfoil blades; aluminum constr.	4000 fpm (20 m/s)	6 in. wg (1500 Pa) thru 48" (1219)W.	150°F (65°C)
VC-29 (Opposed)			3 in. wg (750 Pa) above 48" (1219)W.	
VC-30 (Parallel)	Hat channel frame, airfoil blades; galv. steel constr.	3000 fpm (15 m/s)	4 in. wg (1000Pa)	250°F (120°C) w/o seals
VC-31 (Opposed)				150°F (65°C) w/seals
VOLUME CONTROL • ROUND IN-DUCT MOUNT				
VC-22	Channel frame, single thk. blades, galv. steel constr.	3000 fpm (15 m/s)	2 in. wg (500 Pa)	180°F (82°C) w/o seals 150°F (65°C) w/ seals
VC-23	Channel frame, single thk. blades, galv. steel const., vol. control or shut off use.	3000 fpm (15 m/s)	2 in. wg (500 Pa)	180°F (82°C) w/o seals 150°F (65°C) w/ seals
VC-24	Channel frame, single thk. parallel or opposed blades, galv. steel constr.	3000 fpm (15 m/s)	2 in. wg (500 Pa)	180°F (82°C) w/o seals 150°F (65°C) w/ seals
VC-25	Sleeve frame, double thk. blades, low leakage, galv. steel constr.	3000 fpm (15 m/s)	2 in. wg (1500 Pa)	150°F (65°C) w/ seals
VOLUME CONTROL • RECTANGULAR DUCT FLANGE MOUNT				
VC-411	Channel frame, single thk. parallel or opposed blades, galv. steel constr.	3000 fpm (15 m/s)	10 in. wg (2500 Pa)	250°F (120°C)
VC-412	same as VC-411 above	5000 fpm (25 m/s)	15 in. wg (3725 Pa)	250°F (120°C)
VC-413	Channel frame, parallel or opposed single thk. blades, galv. steel constr.	6000 fpm (30 m/s)	20 in. wg (4965 Pa)	250°F (120°C)
VC-421	Channel frame, airfoil type, single thk. parallel or opposed blades, galv. steel constr.	3500 fpm (15 m/s)	15 in. wg (3725 Pa)	250°F (120°C)
VC-422	(same as VC-421 above)	5000 fpm (25 m/s)	30 in. wg (7475 Pa)	250°F (120°C)
VC-423	(same as VC-421 above)	6000 fpm (30 m/s)	45 in. wg (11170 Pa)	250°F (120°C)
VCA-621	Galv. steel channel frame, parallel or opposed alum. airfoil blades.	3500 fpm (17 m/s)	6 in. wg (1500 Pa)	250°F (120°C)
VCA-822	(same as VCA-621 above)	5000 fpm (25 m/s)	20 in. wg (4965 Pa)	250°F (120°C)
DIFFUSERS				
DF-45/45F	Two and four way diffuser; individually adjustable airfoil blades, galv. steel constr.	3000 fpm (15 m/s)	1 in. wg (250 Pa)	250°F (120°C)
DF-46/46F	Two and four way diffuser; individually adjustable single thk. blades, galv. steel constr.	2000 fpm (10 m/s)	1 in. wg (250 Pa)	250°F (120°C)



Quick Reference Index *(continued)*

MODEL	DESCRIPTION	MAX. FACE VELOCITY	MAX. PRESSURE	MAX. TEMPERATURE
VOLUME CONTROL DAMPERS • ROUND DUCT FLANGE MOUNT				
VC-561	Round isolation damper	4000 fpm (20 m/s)	10 in. wg (2500 Pa)	150°F (65°C)
VC-561	Rolled steel channel frame, round industrial damper.	3900 fpm (20 m/s)	5 in. wg (1250 Pa)	250°F (120°C) w/o seals 150°F (65°C) w/seals
VC-562	(same as VC-561 above)	5150 fpm (26 m/s)	8.5 in. wg (2150 Pa)	(same as VC-561 above)
VC-563	(same as VC-561 above)	6400 fpm (32 m/s)	13.5 in. wg (3375 Pa)	(same as VC-561 above)
INLET VANES				
VC-81	Channel frame, single thk. blades, carbon steel constr., light duty.	3000 fpm (15 m/s)	7 in. wg (1750 Pa)	250°F (120°C)
VC-82	Channel frame, single thk. blades, carbon steel constr., medium duty.	4000 fpm (20 m/s)	10 in. wg (2500 Pa)	250°F (120°C)
VC-83	Channel frame, single thk. blades, carbon steel constr., heavy duty.	6000 fpm (30 m/s) to 10000 fpm (50 m/s)	15 in. wg (3750 Pa) to 90 in. wg (22500 Pa)	250°F (120°C)
BACKDRAFT DAMPERS				
BD-40	Galv. steel hat channel frame, single thk. alum. blades, independent blade operation.	1000 fpm (5 m/s)	.5 in. wg (125 Pa) (Dampers will start to open at approx. .05 in. wg (12.5 Pa)	250°F (120°C) w/o seals 150°F (65°C) w/ seals
BD-41	(same as BD-40 above except unit has blade to blade linkage.)	3000 fpm (15 m/s)	.5 in. wg (125 Pa) (Dampers will start to open at approx. .05 in. wg (12.5 Pa)	250°F (120°C) w/o seals 150°F (65°C) w/ seals
BD-51	Channel frame, single thk. blades, galv. steel constr.	3900 fpm (20 m/s)	.5 in. wg (1250 Pa)	250°F (120°C) w/o seals 150°F (65°C) w/ seals
BD-52	Channel frame, end pivoted airfoil blades, galv. steel constr.	5150 fpm (26 m/s)	8.5 in. wg (2100 Pa)	250°F (120°C) w/o seals 150°F (65°C) w/ seals
BD-53	(same as BD-52 above)	6400 fpm (32 m/s)	13.5 in. wg (3350 Pa)	250°F (120°C) w/o seals 150°F (65°C) w/ seals
PRESSURE RELIEF DAMPERS				
PR-10	Hat channel frame, single thk. tri-formed blades, galv. steel constr.	3000 fpm (15 m/s)	2 in. wg (500 Pa)	250°F (120°C) w/o seals 150°F (65°C) w/ seals
PR-11	Channel frame, single thk. blades, galv. steel constr.	3900 fpm (20 m/s)	5 in. wg (1250 Pa)	250°F (120°C) w/o seals 150°F (65°C) w/ seals
PR-12	Channel frame, end pivoted airfoil blades, galv. steel constr., flanged duct mount.	5150 fpm (26 m/s)	8.5 in. wg (2100 Pa)	250°F (120°C) w/o seals 150°F (65°C) w/ seals
PR-13	Channel frame, end pivoted airfoil blades, galv. steel constr., flanged duct mount.	6400 fpm (32 m/s)	13.5 in. wg (3350 Pa)	250°F (120°C) w/o seals 150°F (65°C) w/ seals



Louvers

Adjustable Louvers are available with a variety of operators. Operator selection includes chain, crank, wing nut, worm gear, electric or pneumatic.

All aluminum and most formed adjustable louvers are available with vinyl blade edge seals and metallic compression jamb seals.

Multiple panels are joined by a substantial jackshaft assembly which is driven by one or more actuators.



Combination Louvers

The LE-64BD is designed for exhaust applications and for preventing reverse airflow. It consists of a stationary louver and a backdraft damper. The LE-66C, with its combination of stationary and adjustable blades in the closed position. Vinyl blade edge and jamb seals are standard on LE-66C.

AWV's LE-67VWD Wind Driven Rain Louver

American Warming and Ventilating has developed the LE-67VWD Wind Driven Rain Louver to counter the problem of wind driven rain damage. This extruded aluminum louver permits ZERO water penetration at 1250 fpm on a 48" x 48" louver and is the one that outperforms all other competitive 4", 6" and 8" wind driven rain louvers in the marketplace.

