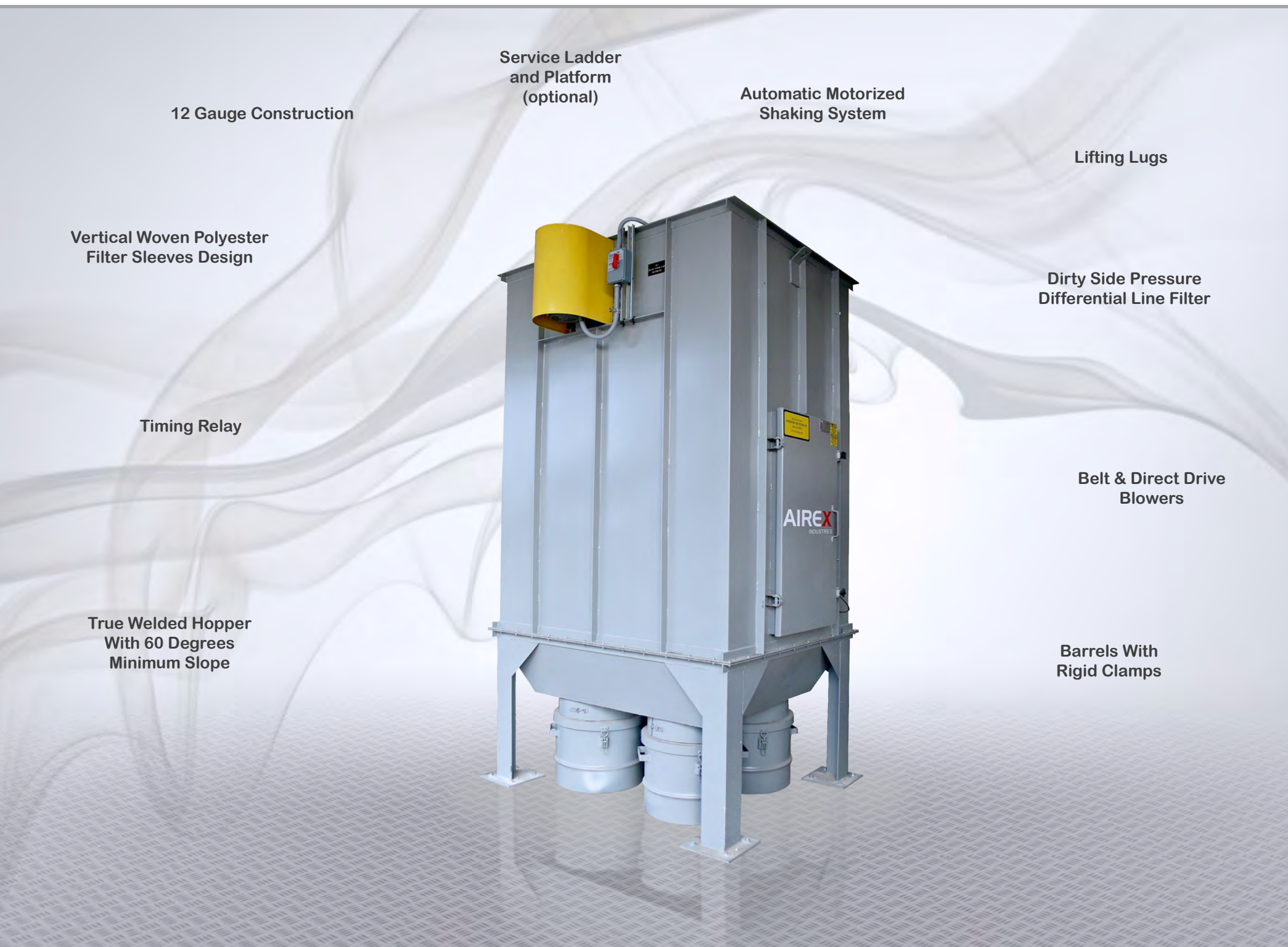


ECONOSHAKE™ SERIES



SHAKER DUST COLLECTOR



12 Gauge Construction

Service Ladder and Platform (optional)

Automatic Motorized Shaking System

Lifting Lugs

Dirty Side Pressure Differential Line Filter

Vertical Woven Polyester Filter Sleeves Design

Timing Relay

Belt & Direct Drive Blowers

True Welded Hopper With 60 Degrees Minimum Slope

Barrels With Rigid Clamps

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YOU GET YOUR MONEY'S WORTH WITH THE SHAKER-TYPE DUST COLLECTOR

The Econoshake dust collector series boast high efficiency filtration and can handle high air volumes with moderate dust loads.

Their technology requires equipment shutdown for periodic cleaning. Their intermittent usage make them ideal candidates for schools and small to medium-sized businesses.

Different configurations of the shaker-type dust collector are available, such as the square-box (SCS(T)) unit and the second unit equipped with a pre-filter cyclonic effect (CE) for heavier dust loads.

MAIN ADVANTAGES AT A GLANCE

Low Initial Cost

The simple design of the shaker dust collector means lower capital investment compared to compressed air self-cleaning units.

Compact

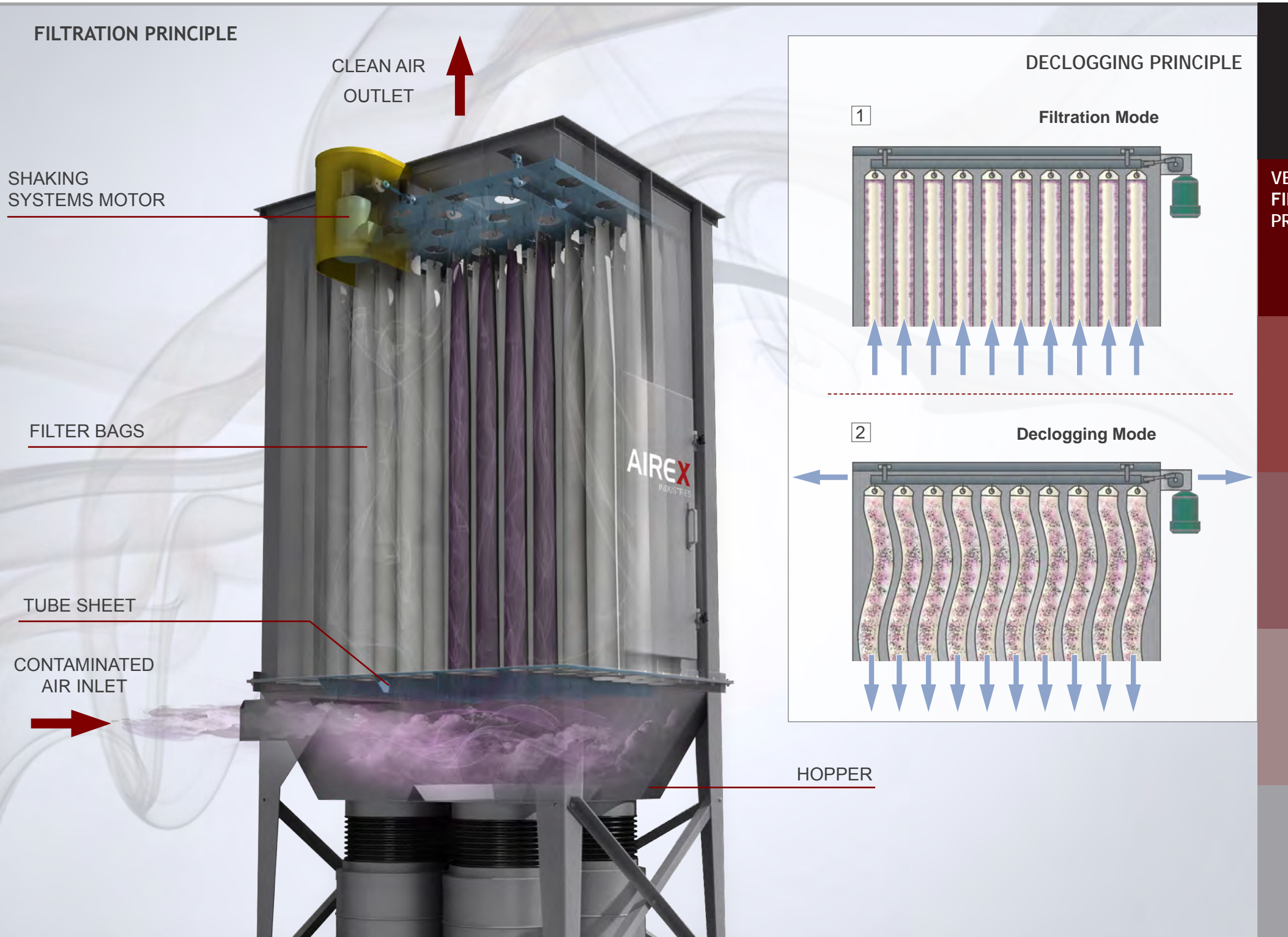
Ideal for reduced spaces, the simple design facilitates implementation despite space constraints.

Low Energy Consumption

Designed to operate intermittently and without compressed air under moderate dust load conditions, you can expect lower energy bills.

Low Maintenance

No valves, no diaphragm replacement. The use of commonly available standard filter media does not limit the user to a sole source / single supplier.



**VERTICAL
FILTRATION
PRINCIPLE**

3

HOW THE SHAKER DUST COLLECTOR WORKS

Dust particulate is captured within the shaker dust collector; as particle velocity decreases, the heavier fractions fall directly to the hopper while the fines are drawn against the inside surfaces of the bags. The filtered air expelled from the shaker dust collector may be recirculated within the building or released outside.

To clean bags, simply activate the integrated electric shaker system. Shaker frequency varies according to the quantity and type of accumulated dust particulate. During the cleaning cycle, you are required to shut down the blower to allow particles to fall and settle down in the hopper.

TECHNOLOGICAL FEATURES

Polyester Filter Bags

Filter fabric is specially treated to facilitate dust cake release during shakedown. Filter cloths are also temperature resistant up to 275°F.

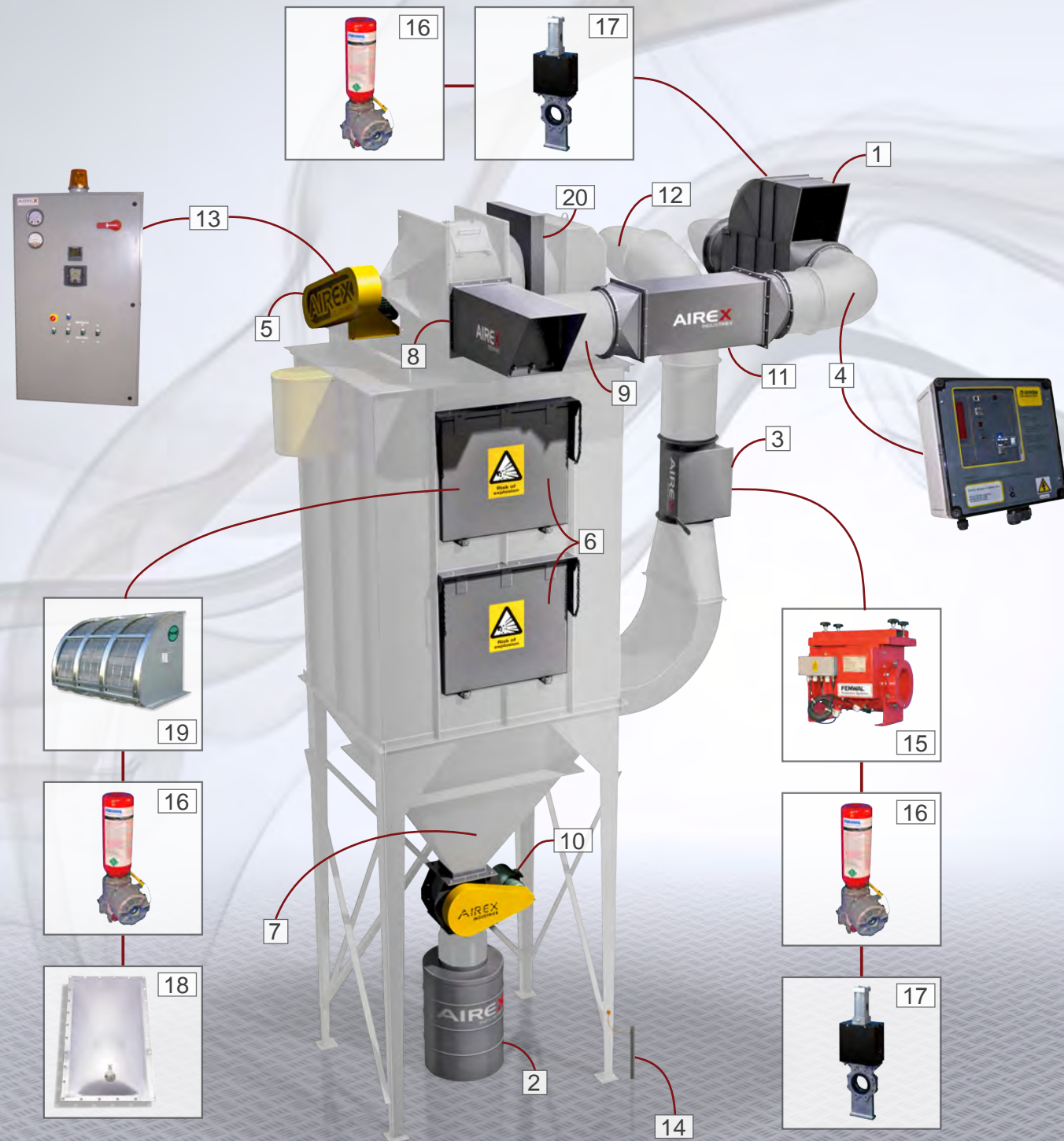
Programmable Shaker Frequency

PLC-controlled systems provide automated filter cleaning schedules.

Quiet Operation

With no diaphragm valves required to clean obstructed filter media, shaker-type dust collectors operate more quietly when in use.

- 1 Dust-laden air forms dust cakes as it is drawn against the inside surface of filter bags.
- 2 Shaking weakens particulate bridges that have formed across bag mesh openings and releases accumulated dust cakes to the bin.



1. Abort Damper
2. Bin / Drum Kit
3. Blow Back Damper
4. Broken Bag Detector
5. Explosion Proof Motor
6. Explosion Vents
7. Fire Extinguishing System
8. Front Flame Deflector
9. High Temperature Probe/Alarm
10. Rotary Air Lock
11. Silencer
12. Spark Detector
13. SpeedFX
14. Ground
15. Passive Isolation Valve ATEX95 Certified
16. Extinguishers
17. High-Speed Isolation Valves
18. Explosion Relief Vent Panels
19. Flameless Vents
20. Fire Damper

ACCESSORIES

5

ENHANCE YOUR PERFORMANCE AND SECURITY

Some options like the SpeedFX™ can vary motor speed and energy consumption thus improving efficiency.

A number of Airex accessories aim to meet NFPA regulations, preventing against fire and explosions while better protecting workers and facilities.

FIRE PROTECTION ACCESSORIES

Abort Damper

Connected with a proper spark or fire detection system, the abort damper redirects exhaust air into the atmosphere as soon as a spark is detected.

Blow Back Damper

Ensures there is a seal, if a fire or explosion occurs in the dust collector, preventing return of smoke and fire to the shop by the intake ductwork.

Explosion Vents

The explosion vents redirect a propagating flame or explosion to atmosphere via pressure rated washers.

Rotary Air Lock

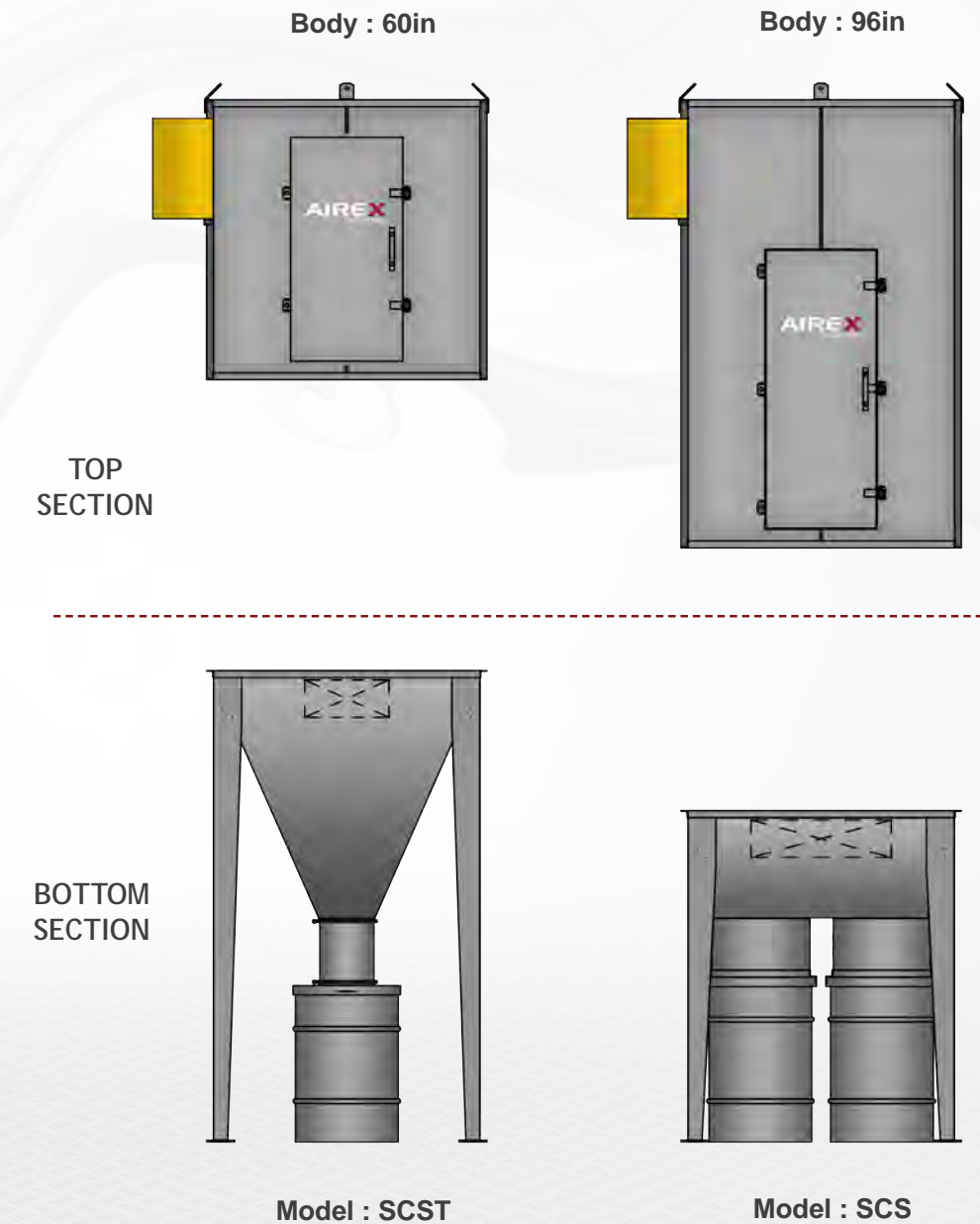
Designed to control the flow of discharge material from a dust collector or other type of process while maintaining an air seal.

Spark Detection & Fire Extinguishing System

Counters the spread of fire with a temperature probe and sprinkler. : Spraying the collector and stops the blower (eliminating oxygen intake).



POSSIBLE CONFIGURATIONS FOR THE SCS & SCST SHAKERS



SCS - SCST
MODEL

7

A SMALL UNIT THAT CAN HANDLE BIG JOBS

Recognized for its robust quality manufacturing, the SCS(T) is definitely the least expensive product line among all categories of industrial-rated units. Its compact design is well suited for inside and outside locations with space restrictions.

The SCS(T) may be equipped with a direct or indirect drive whose motor output varies as a function of system static pressure and flow rates within network conduits. In addition, this unit offers filtration surfaces from 100 to 1031 sq. ft.

When exposed to potentially explosive dust, rigid collars are required at hopper & barrel interfaces as a means to ensure air-tight connections within dust collector housings.

POSSIBLE CONFIGURATIONS

Body Height

Filter bags come in two sizes, either 60 or 96 inch lengths.

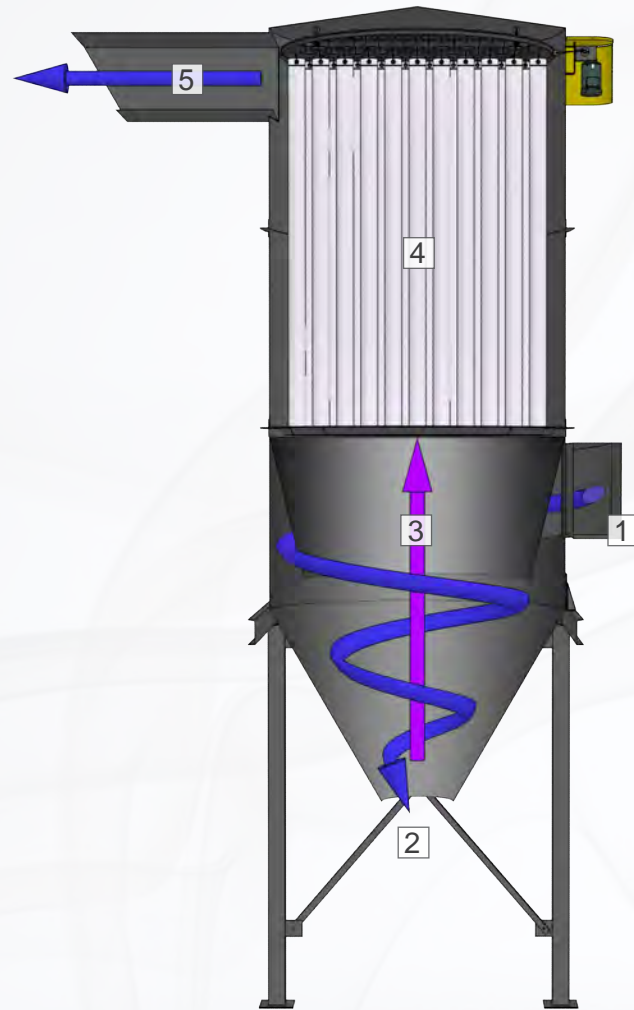
SCS Collector

The SCS comes equipped with a lower hopper that may be connected to a maximum of 4 barrels, thereby extending scheduled maintenance frequencies.

SCST Collector

The SCST only requires a single barrel, giving us the opportunity to install a rotary valve. Additional vertical clearance will be needed, nonetheless, to accommodate the higher hopper.

FILTRATION PROCESS



1. Dust-laden air enters the dust collector.
2. The cyclonic effect separates the larger particulate.
3. Fine particulate is drawn upward.
4. Fines are trapped by filter bags.
5. Filtered air is expelled from the dust collector.



CE
MODEL

9

SHAKER DUST COLLECTOR WITH CYCLONIC SEPARATION PRINCIPLE FOR PARTICULATE MATTER

The benefits of cyclonic effect technology are well known among customers with large-scale requirements. In response to this need, the CE shaker-type dust collector offers remarkable capacity with high volume filtration. Filtration surfaces range from 1584 to 14007 sq. ft.

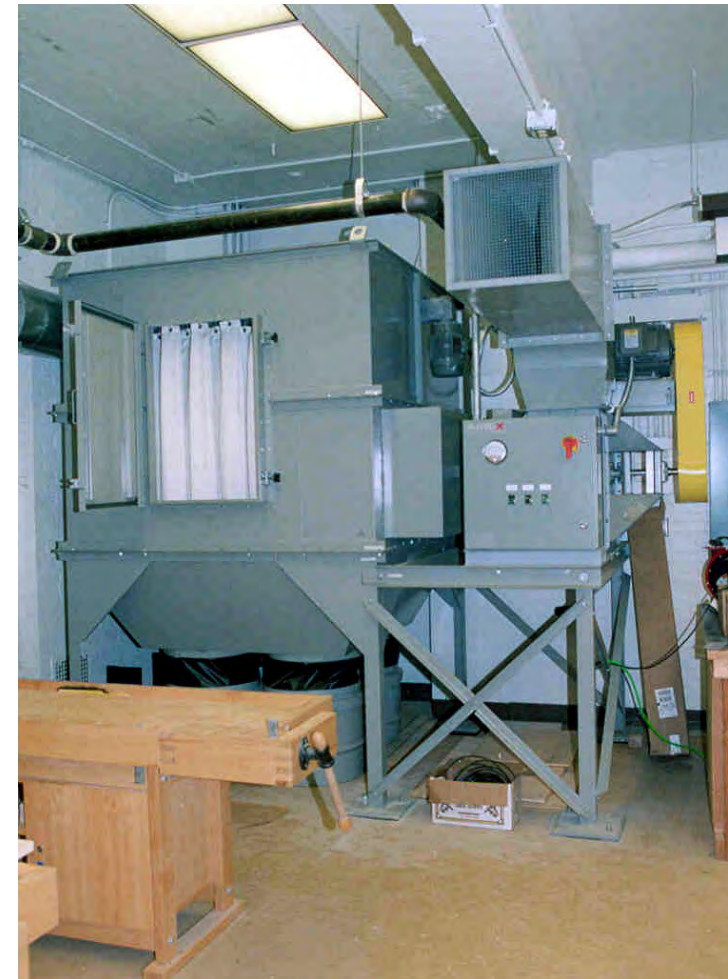
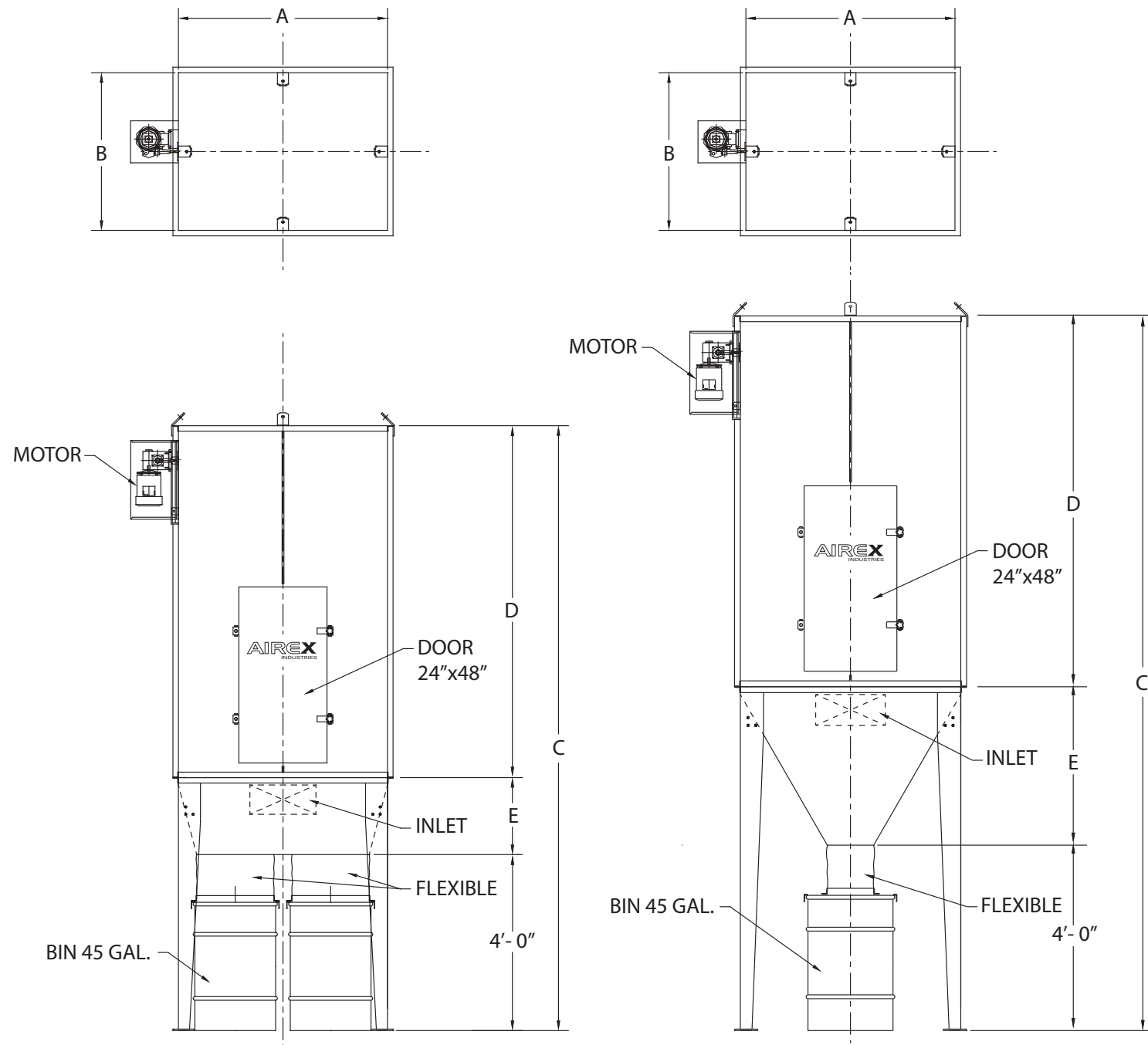
Particulate matter at the bottom of the hopper is typically conveyed pneumatically or screw-fed to a container, whose large storage capacity minimizes maintenance.

OPERATION

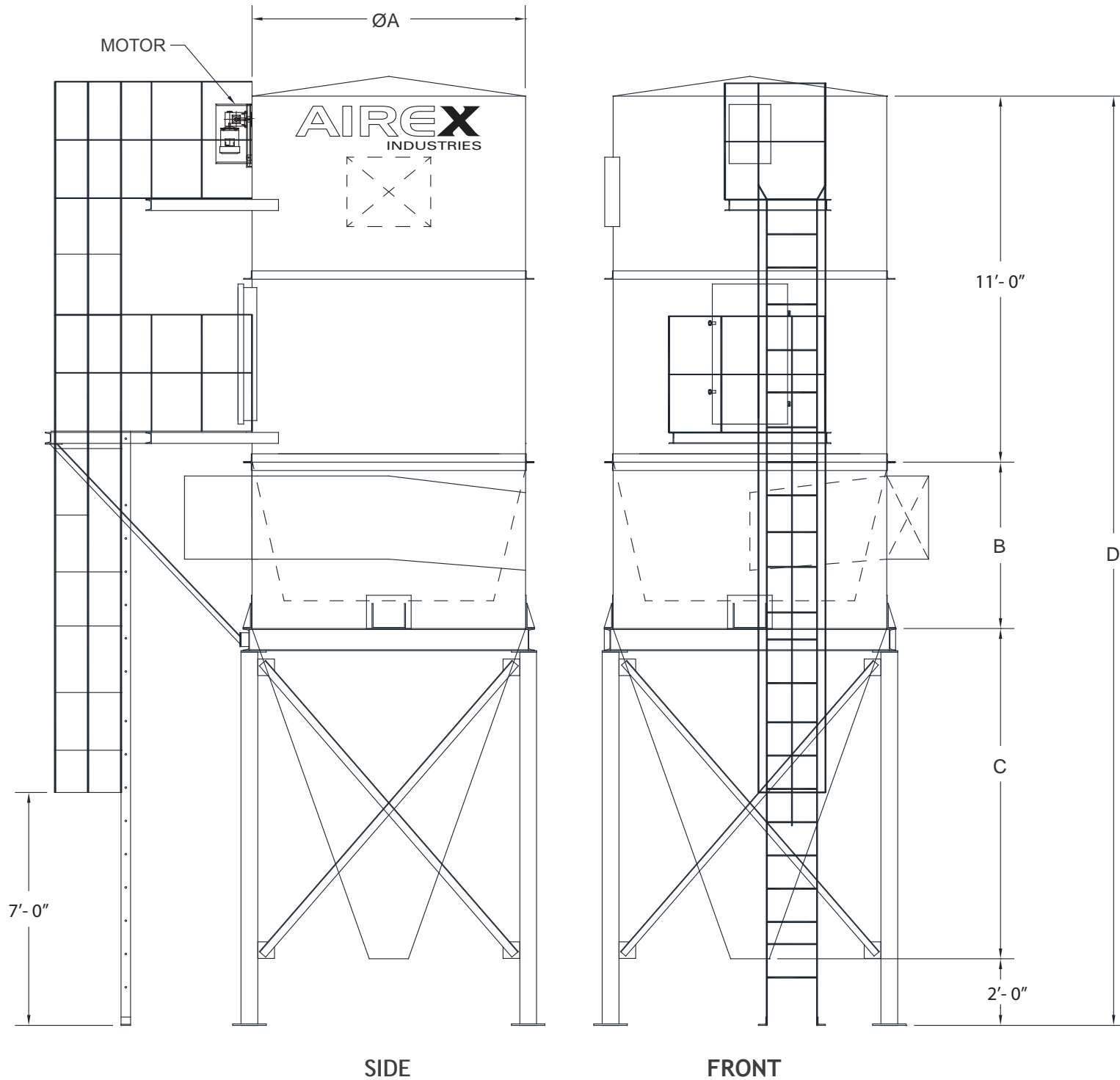
Collected dust particulate passes through initial filtration, whose centrifugal force separates the heavier fractions that migrate along the walls to the base of the hopper.

The lighter dust is drawn upwards for subsequent (secondary) filtration. At this step of the process, fine particulate is trapped within the cloth mesh of filter bags.

The filtered air meanders on to the shaker dust collector exit to be recirculated within the building or exhausted outside.



Model	A	B	C		D	E		Weight (lb)		Barrel		Filtration Area ft ²
			SCS	SCST		SCS	SCST	SCS	SCST	SCS	SCST	
SCS (T) -16-100	29"	29"	10'-3"	10'-5"	60"	15"	17"	650	675	1	1	100
SCS (T) -16-165	29"	29"	13'-3"	13'-5"	96"	15"	17"	800	825	1	1	165
SCS (T) -25-155	36"	36"	10'-3"	10'-11"	60"	15"	23"	775	825	1	1	155
SCS (T) -25-258	36"	36"	13'-3"	13'-11"	96"	15"	23"	950	1,000	1	1	258
SCS (T) -36-223	43"	43"	10'-9"	11'-5"	60"	21"	29"	925	1,000	1	1	223
SCS (T) -36-371	43"	43"	13'-9"	14'-5"	96"	21"	29"	1,150	1,225	1	1	371
SCS (T) -48-297	57"	43"	10'-9"	12'-5"	60"	21"	41"	1,100	1,300	2	1	297
SCS (T) -48-495	57"	43"	13'-9"	15'-5"	96"	21"	41"	1,325	1,525	2	1	495
SCS (T) -64-396	57"	57"	10'-9"	12'-5"	60"	21"	41"	1,250	1,475	4	1	396
SCS (T) -64-660	57"	57"	13'-9"	15'-5"	96"	21"	41"	1,525	1,750	4	1	660
SCS (T) -80-495	57"	71"	10'-11"	13'-5"	60"	23"	53"	1,500	1,800	4	1	495
SCS (T) -80-825	57"	71"	13'-11"	16'-5"	96"	23"	53"	1,800	2,100	4	1	825
SCS (T) -100-619	71"	71"	10'-11"	13'-5"	60"	23"	53"	1,700	2,050	4	1	619
SCS (T) -100-1031	71"	71"	13'-11"	16'-5"	96"	23"	53"	2,050	2,400	4	1	1,031



Model	CFM Max ft ³ /min	A	B	C	D	Inlet	Weight (lb)	Filtration Area ft ²
CE-121	14,200	7'-6"	3'-9"	6'-9"	23'-6"	13"x 33"	6,951	1,584
CE-151	17,700	8'-6"	5'-3"	7'-7"	25'-10"	15"x 39"	8,338	1,977
CE-163	19,200	9'-0"	5'-4"	8'-0"	26'-4"	16"x 40"	9,396	2,134
CE-199	23,400	9'-6"	5'-7"	8'-6"	27'-1"	17"x 43"	10,111	2,605
CE-223	26,200	10'-0"	5'-9"	8'-11"	27'-8"	18"x 45"	10,829	2,920
CE-253	29,800	10'-6"	6'-0"	9'-4"	28'-4"	19"x 48"	11,560	3,312
CE-265	31,200	11'-0"	6'-2"	9'-9"	28'-1"	20"x 50"	12,379	3,469
CE-301	35,400	11'-6"	6'-4"	10'-2"	29'-6"	21"x 52"	13,160	3,941
CE-337	39,700	12'-0"	6'-5"	10'-8"	30'-1"	21"x 53"	14,704	4,412
CE-397	46,700	13'-0"	6'-8"	11'-6"	31'-2"	23"x 58"	16,333	5,197
CE-464	54,600	14'-0"	7'-4"	12'-4"	32'-8"	25"x 64"	18,211	6,074
CE-535	63,000	15'-0"	7'-8"	14'-0"	34'-8"	27"x 68"	22,616	7,004
CE-607	71,500	16'-0"	8'-2"	14'-11"	36'-1"	29"x 74"	25,106	7,946
CE-685	80,700	17'-0"	8'-7"	15'-9"	37'-4"	32"x 79"	27,375	8,967
CE-793	93,400	18'-0"	9'-0"	16'-8"	38'-8"	33"x 84"	30,284	10,381
CE-871	102,600	19'-0"	9'-4"	17'-6"	39'-10"	35"x 88"	32,604	11,402
CE-979	115,300	20'-0"	9'-9"	18'-4"	40'-1"	37"x 93"	35,139	12,816
CE-1070	126,000	21'-0"	10'-2"	19'-3"	41'-5"	39"x 98"	37,759	14,007



Head Office

2500 Bernard-Lefebvre Street
Laval, QC, Canada H7C 0A5

Manufacturing Facility

3025 Kunz Street
Drummondville, QC, Canada J2C 6Y4

Tel. : 514.351.2303
Toll Free : 1.800.263.2303
Fax : 450.665.2605

contact@airex-industries.com
www.airex-industries.com