

# MAXFLO™

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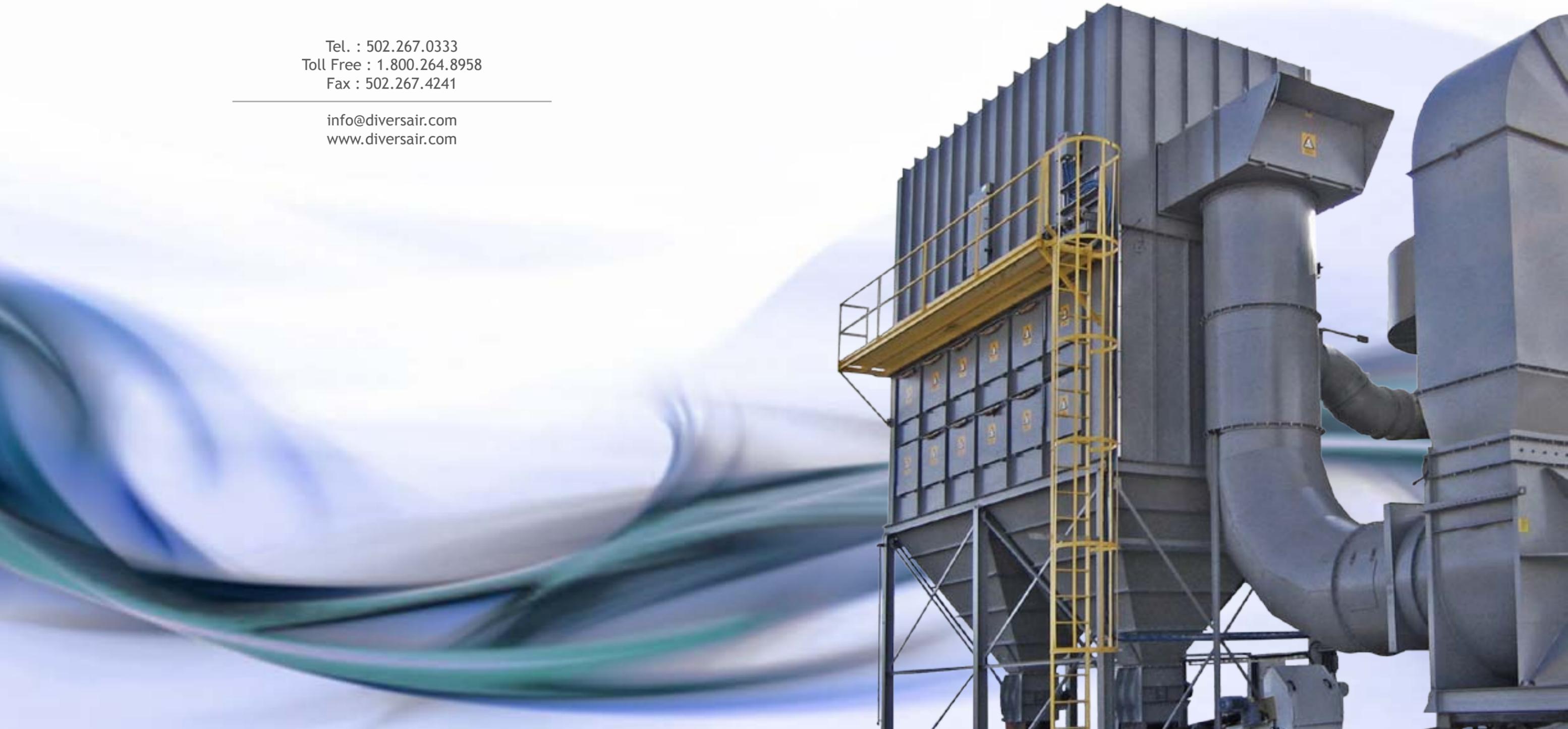
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# MAXFLO™

## PLEATED BAGHOUSE DUST COLLECTORS



PLEATED BAGHOUSE DUST COLLECTORS



3/4" @ 1 1/2"  
Goyen Valves

Certified Compressed  
Air Tank

12 Gauge Construction

Fast Acting Access Door

Compression Sealing  
Technology

7' Pleated Bag Length

Service Ladder  
and Platform

Lifting Lugs

Belt Drive Blowers

Dirty Side Pressure  
Differential Line Filter

Full Logic (cleaning)  
Control Board

Goyen Solenoid Block Kit

Hopper with minimum  
slope of 60 degrees

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## DISCOVER THE POWER OF THE MAXFLO PLEATED BAG DUST COLLECTORS

Pleated bag dust collectors stand out due to their ability to handle high volumes of dust laden air using a compressed-air self-cleaning system enabling effective reverse blasting through deformation of the filter bags.

The unit filters sub-micron sized particles in continuous operating mode and without a steady loss of differential pressure.

Our line of pleated bags dust collectors includes sealed mechanisms as well as doors that provide easy access with very few tools required for maintenance.

### MAIN ADVANTAGES AT A GLANCE

#### High filtration capacity

Models from 16 to 720 filter bags and up to 125 000 CFM capacity.

#### Custom engineering

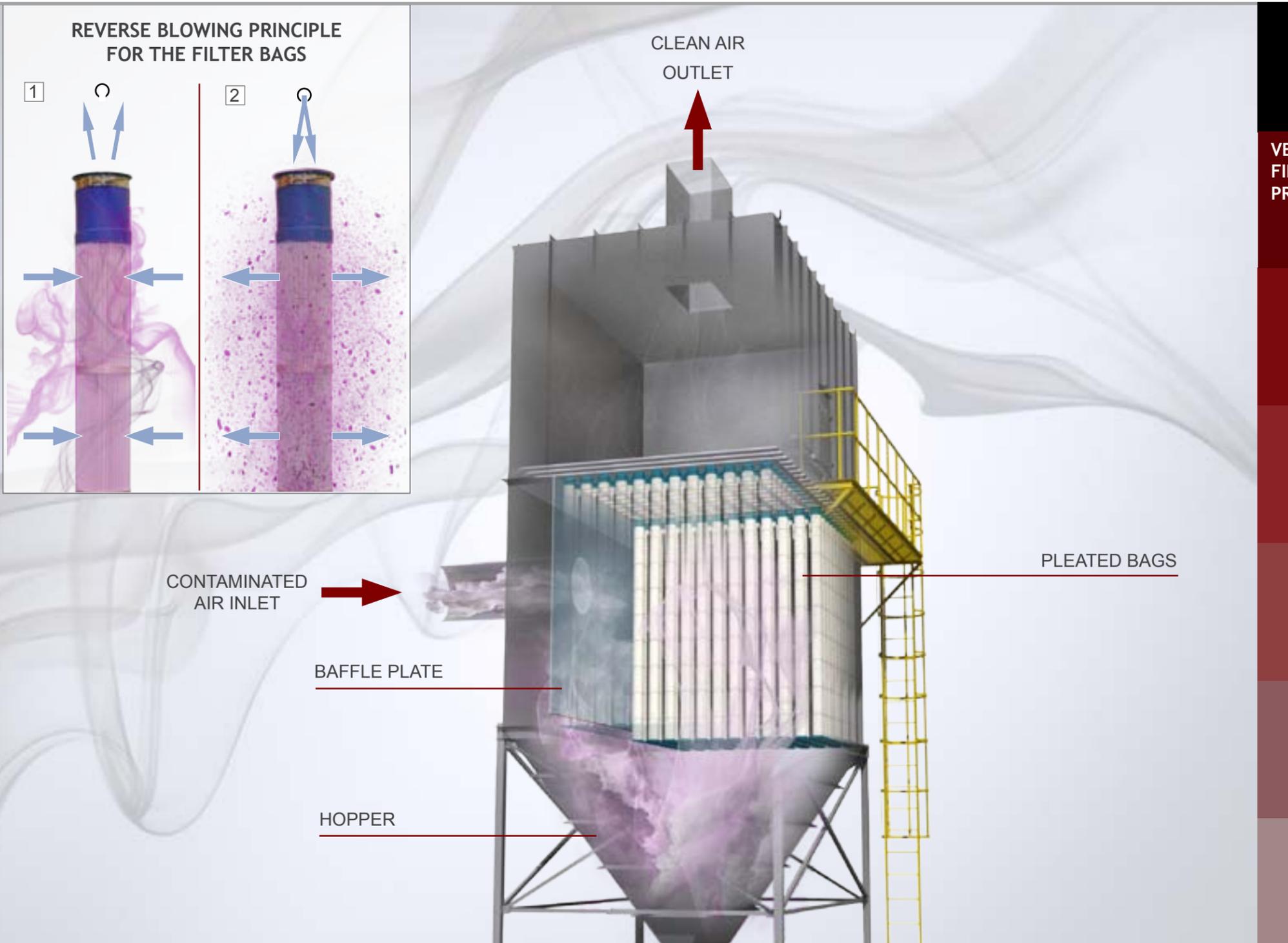
The systems in the MAXFLO series can be customized based on specific requirements.

#### Project integration

Avoids particle accumulation within plants, in order to better comply with NFPA regulations.

#### Standard filter bags

Not limited to obtaining replacement bags from a sole source provider.



**VERTICAL  
 FILTRATION  
 PRINCIPLE**

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**HOW THE MAXFLO SERIES DUST COLLECTOR WORKS**

Dust-laden air enters and is directed to the bottom of the dust collector by means of a deflector plate prior to going through the filter bags.

The dust accumulates creating a cake on the outside surface of the bags. At regular intervals, a burst of compressed air is injected into the bags through a parabolic nozzle that creates a shock wave causing the particles to fall to the bottom of the hopper.

The filtered air exits through the venturis into the clean section and is then either expelled outside or recirculated, depending on the application.

**ADVANTAGES**

**Fast, simple and safe bag replacement**  
**Inside-access models:** It is possible to replace the bags with just a screwdriver.

**Top-access model:** The compression sealing technology requires no tools to replace the bags.

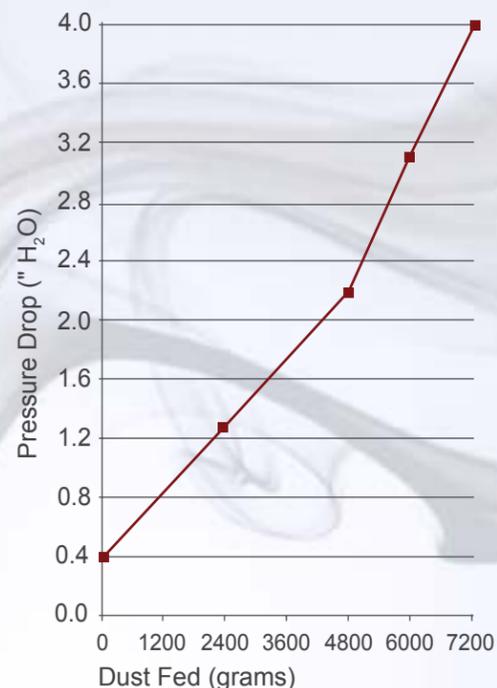
**Continuous operation**  
 Unlike the shaker models, it is not necessary to shut down this type of dust collector to clean the filters.

**Economical**  
 The pleated bag dust collector is an economical choice because it requires minimal maintenance: only periodic bag replacement is necessary.

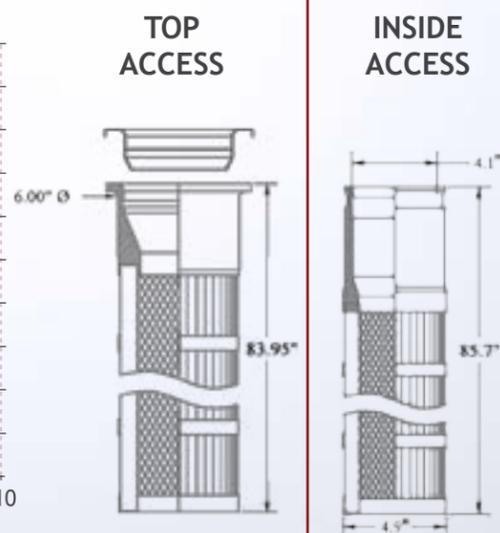
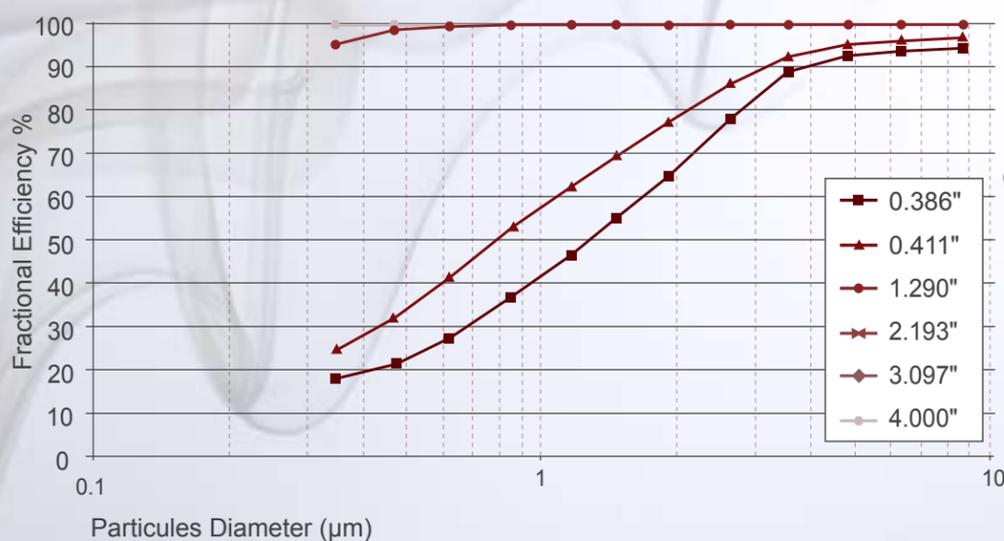
- 1 The dust-laden air is filtered and forms a dust cake on the outside surface of the bag.
- 2 The pulsed air blast ejects the accumulated dust cake into the hopper.

## ASHRAE STANDARD

ΔP ("H2O)	0.386"	0.411"	1.290"	2.193"	3.097"	4.000"
PARTICLE DIAMETER (μm)	FRACTIONAL EFFICIENCY (%)					
0.30 - 0.40	18.9	25.5	96.1	99.9	99.9	99.9
0.40 - 0.55	22.1	32.8	99.0	100.0	100.0	100.0
0.55 - 0.70	28.1	42.1	99.7	100.0	100.0	100.0
0.70 - 1.00	37.9	53.7	99.9	100.0	100.0	100.0
1.00 - 1.30	47.4	63.1	100.0	100.0	100.0	100.0
1.30 - 1.60	55.9	70.3	100.0	100.0	100.0	100.0
1.60 - 2.20	65.8	78.2	100.0	100.0	100.0	100.0
2.20 - 3.00	79.0	86.9	100.0	100.0	100.0	100.0
3.00 - 4.00	89.9	93.3	100.0	100.0	100.0	100.0
4.00 - 5.50	93.7	96.2	100.0	100.0	100.0	100.0
5.50 - 7.00	94.6	97.0	100.0	100.0	100.0	100.0
7.00 - 10.00	95.5	97.7	100.0	100.0	100.0	100.0



## FILTRATION RATE



FILTRATION TECHNOLOGY

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## IMPROVE YOUR PROCESS WITH THE PLEATED BAG

Compared to standard filter bags, the pleated bag design provides greater efficiency by trapping finer dust particles at the micron level and by having a filtration surface that is at least twice as large.

In addition, the pleated bag is shorter than a filter bag. Dust collectors designed with this medium result in more compact units.

## SPECIFICATIONS OF THE PLEATED BAG

### Material

Spun bond ; polyester, PTFE, aluminized

### Filtering surface & dimensions (45 pleats)

**Top access:** 47.90 ft<sup>2</sup>

Dim: 6.00" OD x 3.80" ID x 83.95" L

**Inside access:** 28.40 ft<sup>2</sup>

Dim: 4.94" OD x 3.70" ID x 85.70" L

### Density

0.43 g/cm<sup>3</sup>

### Permeability

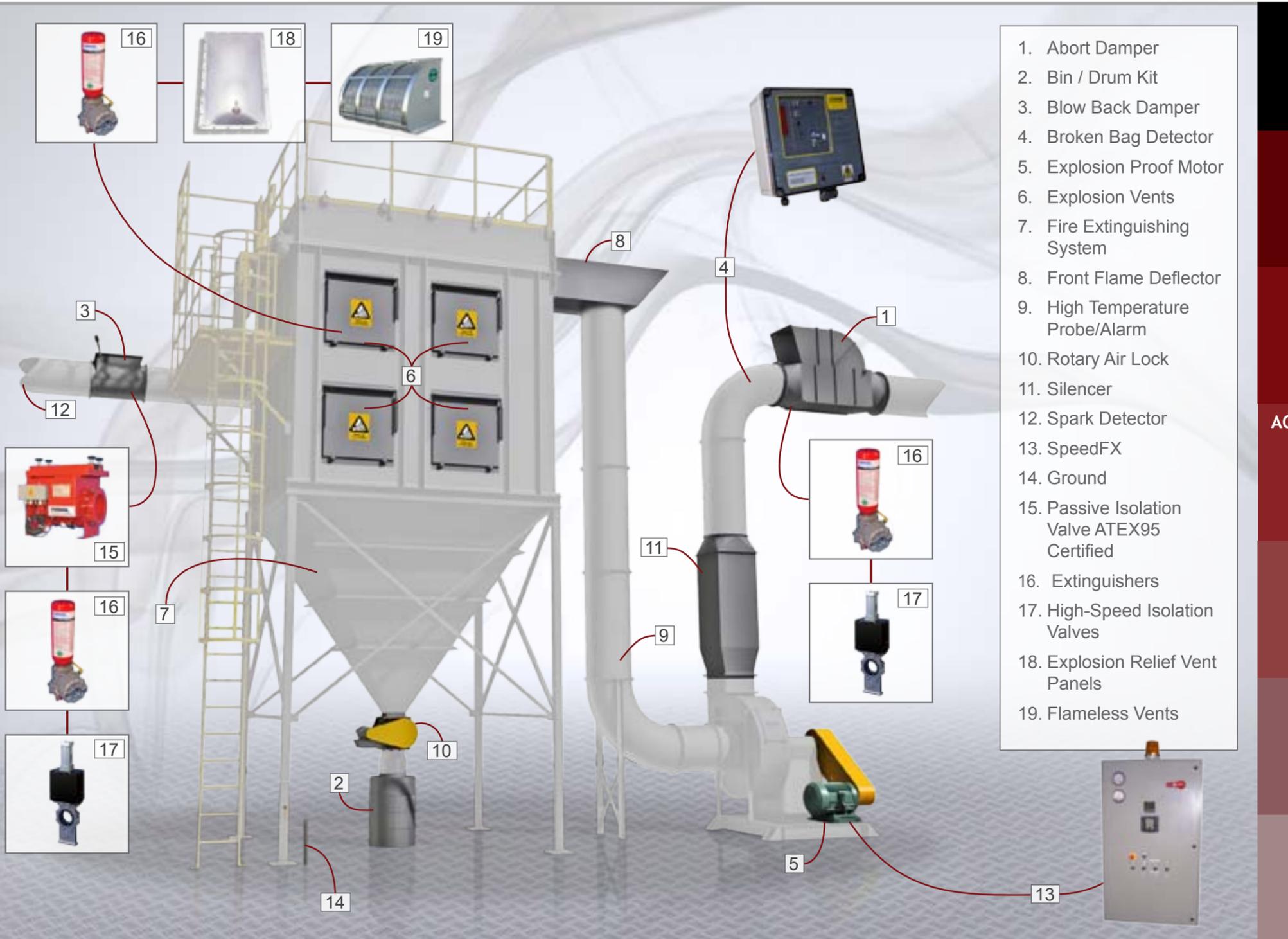
**Polyester :** 17 - 23 CFM @ 0.5" H<sub>2</sub>O

**PTFE :** 5 - 12 CFM @ 0.5" H<sub>2</sub>O

**Aluminized :** 26 - 30 CFM @ 0.5" H<sub>2</sub>O

### Continuous operating temperature

200 °F (93 °C)



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

## ACCESSORIES

### ENHANCE YOUR SECURITY AND PERFORMANCE

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

**Explosion Vents**  
The explosion vents redirects a propagating flame or explosion to atmosphere. Pressure rated washers are used to seal and release vent.

**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 Kit System**  
System counters the spread of fire with a temperature probe and sprinkler, spraying the collector and stopping the blower (eliminating oxygen intake once a set point is reached).

SHAKER UNIT	CYCLONIC EFFECT UNIT	RECTANGULAR UNIT																																																																		
																																																																				
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<p><b>DISTINCTIVE FEATURES:</b></p> <ul style="list-style-type: none"> <li>• Off line cleaning</li> <li>• Preferable to operate the dust collector at a low filtration ratio.</li> <li>• Ideal for occasional or intermittent use.</li> </ul>	<p><b>DISTINCTIVE FEATURES:</b></p> <ul style="list-style-type: none"> <li>• On / off line cleaning</li> <li>• This design requires more overhead space.</li> <li>• Heavy energy consumption due to the high static pressure of the cyclonic effect.</li> </ul>	<p><b>DISTINCTIVE FEATURES:</b></p> <ul style="list-style-type: none"> <li>• On / off line cleaning</li> <li>• Choice of efficient and low energy consuming blower, due to low pressure loss.</li> <li>• This design requires less overhead space.</li> </ul>																																																																		

ENERGY EFFICIENCY

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## THE PERFECT BALANCE BETWEEN EFFECTIVENESS AND COST

More than one kind of dust collector uses filter bags. This does not mean that they are all just as effective for the same application. There are no bad dust collectors, just bad decisions during analysis and selection.

The Pleatsonix series is a rectangular unit. Best used for high volume continuous filtration. Adding a variable frequency drive helps reduce size, selection and operating costs.

## THE DIFFERENT BAGHOUSE DUST COLLECTORS

### Shaker Unit

This unit is far from being the preferred option if you are looking for continuous and efficient operation for industrial use.

### Cyclonic Effect Unit

This type of dust collector uses the cyclonic effect to separate out the larger particles and then trap the fine particles using filter bags.

### Rectangular Unit

This model provides a multitude of potential customizations to suit the client's requirements. It ranks among the most effective due to its balance between filtration capacity and the energy needed for proper operation.



**DIFFERENT MAINTENANCE ACCESS OPTIONS**

The main selection criterion that determines which dust collector to choose is available overhead space.

The Pleatsonix series offers three models that are differentiated by the location of the maintenance access.

**FEATURES OF THE MODELS**

**W&S model: dirty side access**

This model is the most compact, which is ideal for locations where overhead space is limited. Its great disadvantage, as the name implies, comes from the fact that maintenance must be done inside the dirty section of the dust collector.

**TR model: clean side access with no plenum**

Replacing the bags is very easy because it does not require any tools, thereby increasing maintenance speed.

Clean side access requires additional overhead clearance of roughly 2m - 2,5m (6' - 8').

**TRP model: clean side access with plenum**

Identical to the above model (TR) except that it has a plenum enabling the operator to go inside the clean section. This protects the operator from bad weather during maintenance.

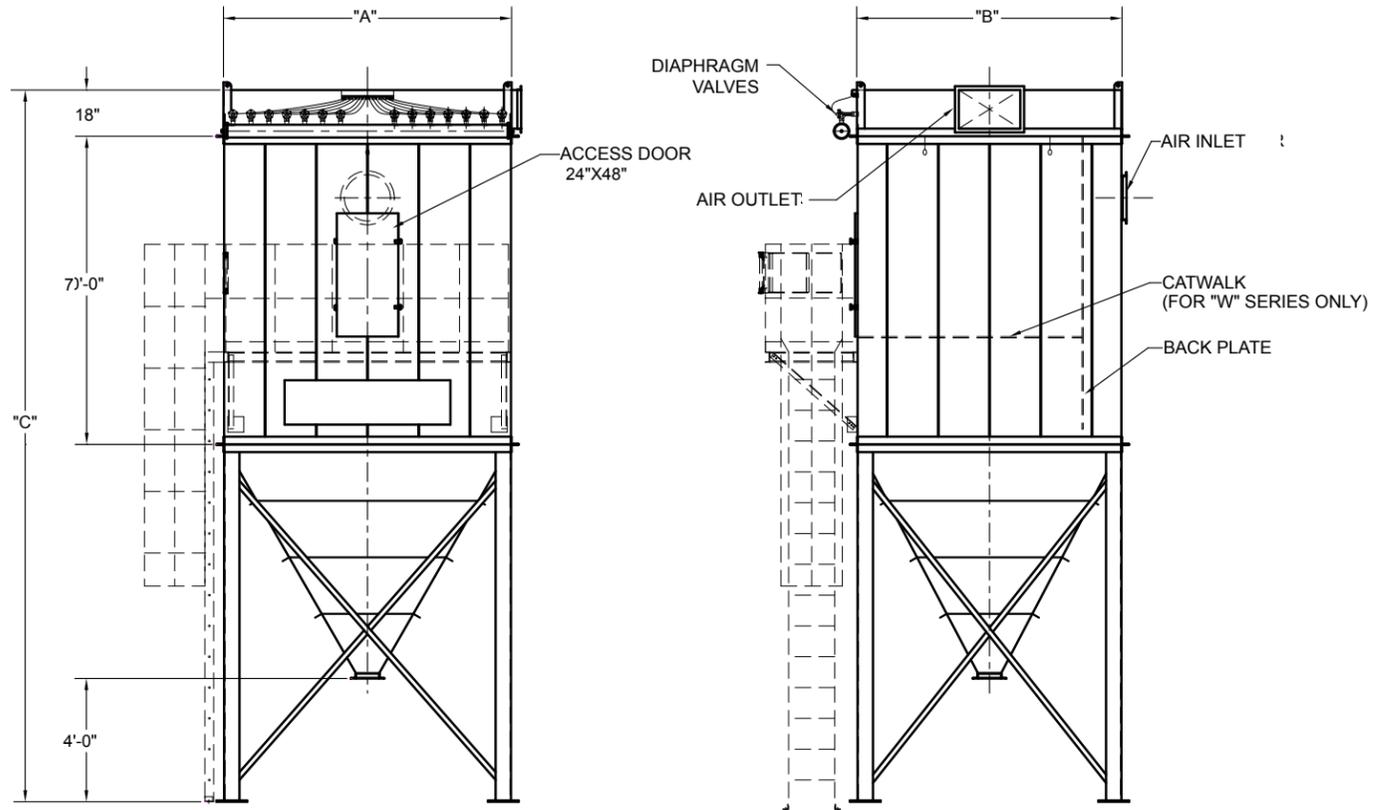


**MAINTENANCE ACCESS**

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# SPECIFICATIONS

# - INSIDE ACCESS -

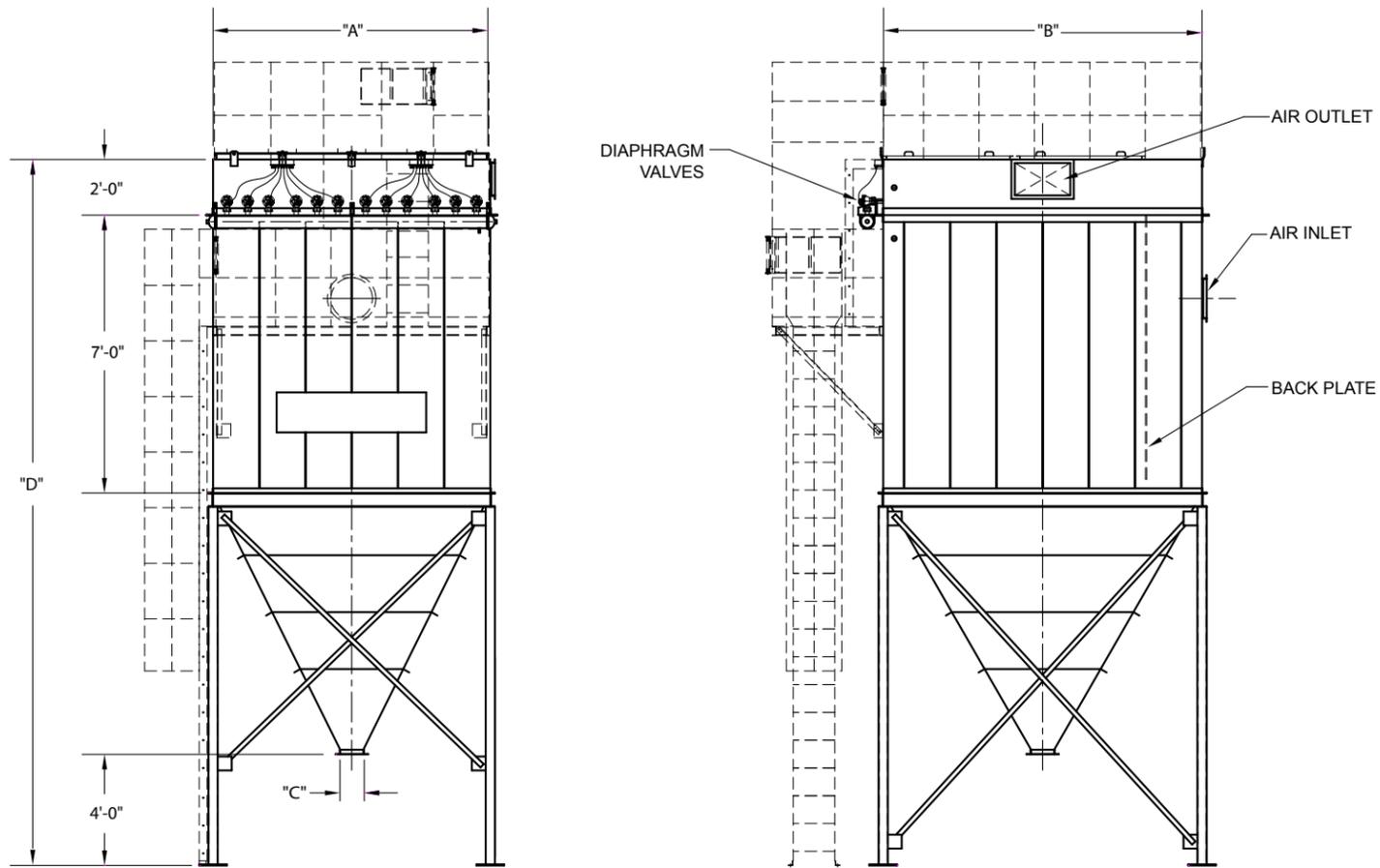


MODEL	CLOTH AREA (ft <sup>2</sup> )	A	B	C	WEIGHT (LBS)	NUMBER AND SIZE OF VALVE
16SP	455	28"	34"	126"	895	4 @ 3/4"
24SP	682	28"	48"	149"	1,160	4 @ 3/4"
24WP	682	42"	52"	142"	1,365	4 @ 3/4"
36SP	1,022	42"	52"	142"	1,515	6 @ 3/4"
36WP	1,022	56"	52"	146"	1,830	6 @ 3/4"
48SP	1,363	42"	66"	154"	1,880	6 @ 3/4"
48WP	1,363	56"	66"	154"	2,395	6 @ 3/4"
64SP	1,818	56"	68"	156"	2,190	8 @ 3/4"
64WP	1,818	70"	68"	188"	3,255	8 @ 3/4"
80SP	2,272	56"	82"	168"	3,040	8 @ 3/4"
80WP	2,272	70"	82"	168"	3,820	8 @ 3/4"
100SP	2,840	70"	82"	168"	3,270	10 @ 3/4"
100WP	2,840	84"	82"	170"	4,085	10 @ 3/4"
120SP	3,408	70"	96"	180"	4,085	10 @ 1"
120WP	3,408	84"	96"	180"	4,300	10 @ 1"
144SP	4,090	84"	96"	180"	5,250	12 @ 1"
144WP	4,090	98"	96"	182"	6,115	12 @ 1"
168SP	4,771	98"	96"	182"	6,415	14 @ 1"
168WP	4,771	112"	96"	194"	7,280	14 @ 1"
192WP	5,453	126"	96"	206"	8,345	16 @ 1"
216WP	6,134	154"	102"	179"	8,360	18 @ 1"
240WP	6,816	168"	102"	179"	8,825	20 @ 1"
264WP	7,498	182"	102"	179"	9,390	22 @ 1"
288WP	8,179	196"	102"	179"	11,255	24 @ 1"
312WP	8,861	210"	102"	182"	13,220	26 @ 1"
336WP	9,542	224"	102"	188"	14,185	28 @ 1"
360WP	10,224	238"	102"	194"	16,150	30 @ 1"
384WP	10,906	252"	102"	200"	17,815	32 @ 1"
408WP	11,587	266"	102"	206"	19,030	34 @ 1"
432WP	12,269	280"	102"	212"	20,045	36 @ 1"



# SPECIFICATIONS

# - TOP ACCESS -

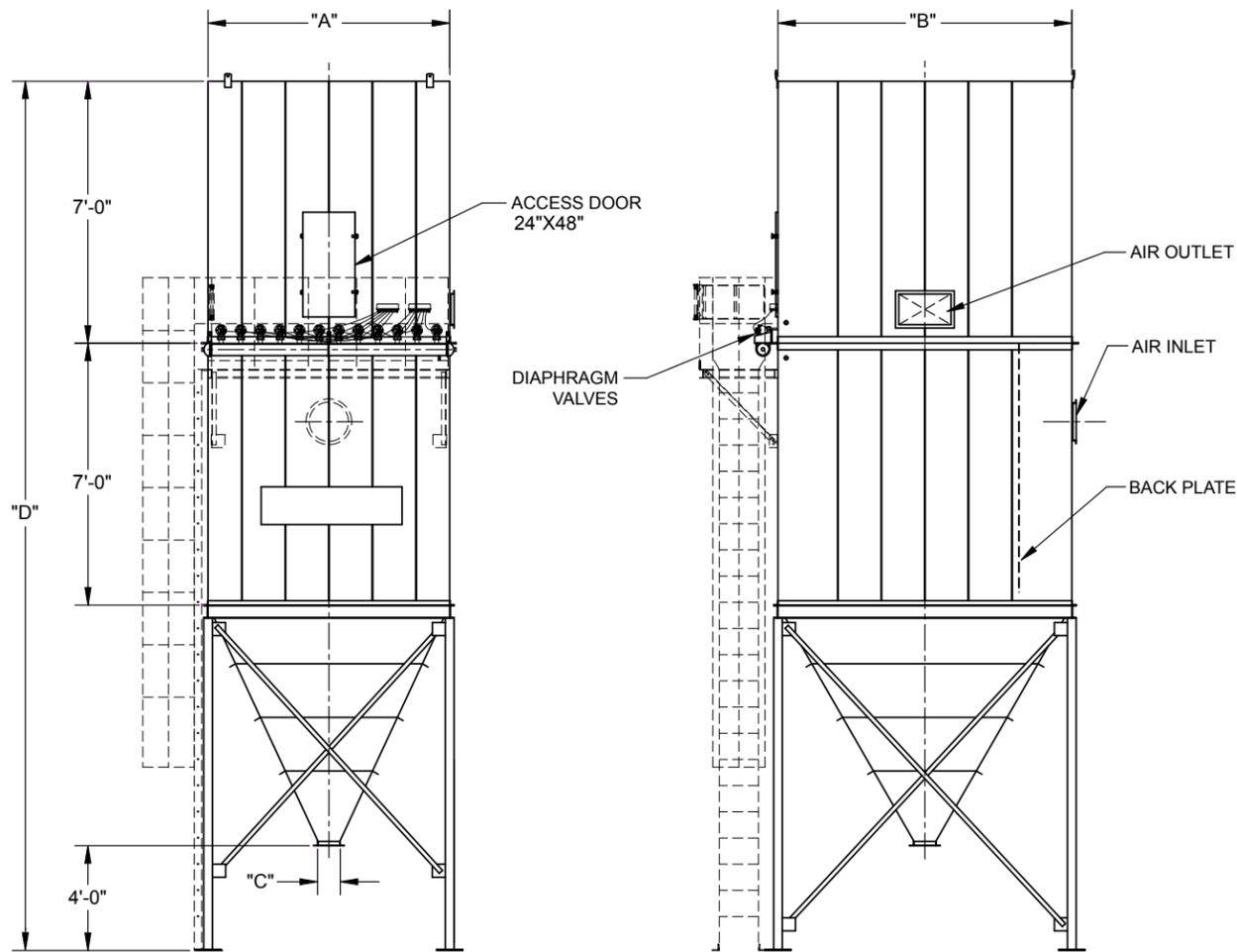


MODEL	CLOTH AREA (ft <sup>2</sup> )	A	B	C	D	WEIGHT (LBS)	NUMBER AND SIZE OF VALVE
54-7TR-6P	2,700	60"	101"	10"	213"	4,013	6 @ 1 1/2"
72-7TR-6P	3,600	60"	131"	10"	238"	5,091	6 @ 1 1/2"
81-7TR-6P	4,050	90"	101"	10"	213"	5,211	9 @ 1 1/2"
108-7TR-6P	5,400	90"	138"	10"	250"	6,321	9 @ 1 1/2"
144-7TR-6P	7,200	120"	138"	10"	245"	7,600	12 @ 1 1/2"
180-7TR-6P	9,000	150"	138"	22"	245"	8,713	15 @ 1 1/2"
216-7TR-6P	10,800	180"	138"	52"	245"	9,834	18 @ 1 1/2"
252-7TR-6P	12,600	210"	138"	82"	245"	10,955	21 @ 1 1/2"
288-7TR-6P	14,400	240"	138"	112"	245"	12,089	24 @ 1 1/2"
324-7TR-6P	16,200	270"	138"	142"	245"	13,600	27 @ 1 1/2"
360-7TR-6P	18,000	300"	138"	172"	245"	14,710	30 @ 1 1/2"
396-7TR-6P	19,800	330"	138"	202"	245"	15,843	33 @ 1 1/2"
432-7TR-6P	21,600	360"	138"	230"	245"	16,963	36 @ 1 1/2"
468-7TR-6P	23,400	390"	138"	262"	245"	18,086	39 @ 1 1/2"
504-7TR-6P	25,200	420"	138"	292"	245"	19,232	42 @ 1 1/2"
540-7TR-6P	27,000	450"	138"	322"	245"	20,354	45 @ 1 1/2"
576-7TR-6P	28,800	480"	138"	352"	245"	21,475	48 @ 1 1/2"
612-7TR-6P	30,600	510"	138"	382"	245"	23,000	51 @ 1 1/2"
648-7TR-6P	32,400	540"	138"	412"	245"	24,095	54 @ 1 1/2"
684-7TR-6P	34,200	570"	138"	442"	245"	25,229	57 @ 1 1/2"
720-7TR-6P	36,000	600"	138"	472"	245"	26,363	60 @ 1 1/2"



# SPECIFICATIONS

# - TOP ACCESS WITH PLENUM -



MODEL	CLOTH AREA (ft <sup>2</sup> )	A	B	C	D	WEIGHT (LBS)	NUMBER AND SIZE OF VALVE
54-7TRP-6P	2,700	57"	101"	10"	273"	5,598	6 @ 1 1/2"
72-7TRP-6P	3,600	57"	128"	10"	296"	6,990	6 @ 1 1/2"
81-7TRP-6P	4,050	90"	101"	10"	273"	7,803	9 @ 1 1/2"
108-7TRP-6P	5,400	84"	135"	10"	314"	8,657	9 @ 1 1/2"
144-7TRP-6P	7,200	114"	135"	10"	302"	10,134	12 @ 1 1/2"
180-7TRP-6P	9,000	138"	135"	13"	302"	11,559	15 @ 1 1/2"
216-7TRP-6P	10,800	165"	135"	40"	302"	12,977	18 @ 1 1/2"
252-7TRP-6P	12,600	192"	135"	67"	302"	14,221	21 @ 1 1/2"
288-7TRP-6P	14,400	219"	135"	94"	302"	15,824	24 @ 1 1/2"
324-7TRP-6P	16,200	246"	135"	120"	302"	17,632	27 @ 1 1/2"
360-7TRP-6P	18,000	273"	135"	148"	302"	19,037	30 @ 1 1/2"
396-7TRP-6P	19,800	300"	135"	186"	302"	20,466	33 @ 1 1/2"
432-7TRP-6P	21,600	327"	135"	202"	302"	21,882	36 @ 1 1/2"
468-7TRP-6P	23,400	354"	135"	229"	302"	23,300	39 @ 1 1/2"
504-7TRP-6P	25,200	381"	135"	256"	302"	24,743	42 @ 1 1/2"
540-7TRP-6P	27,000	408"	135"	283"	302"	26,160	45 @ 1 1/2"
576-7TRP-6P	28,800	435"	135"	310"	302"	27,578	48 @ 1 1/2"
612-7TRP-6P	30,600	462"	135"	336"	302"	29,575	51 @ 1 1/2"
648-7TRP-6P	32,400	489"	135"	364"	302"	30,790	54 @ 1 1/2"
684-7TRP-6P	34,200	516"	135"	390"	302"	32,220	57 @ 1 1/2"
720-7TRP-6P	36,000	543"	135"	418"	302"	33,650	60 @ 1 1/2"

