

BRF //

BAGHOUSE DUST COLLECTOR

MEDIUM
PRESSURE
AND
REVERSE
AIR





OUR MISSION

**“TO IMPROVE THE HEALTH, SAFETY,
AND QUALITY OF PEOPLE’S LIVES
BY BUILDING THE BEST DUST AND
FUME COLLECTORS ON EARTH”**

IMPERIAL SYSTEMS, INC.

B R E A T H E B E T T E R , W O R K S A F E R

BIG

ROUND

FILTER



POWDER COAT

**First Round Baghouse
to be Powder Coated**

**Scratch & Corrosion
Resistant**



HEAVY DUTY

**7 & 10 Gauge
Construction**



























**Military Grade
Door Latches**



EXACT PULSE

**Auto Calibration
of Filter Bag Alignment**

**Direct Pulse
in Every Filter Bag**

COMPARISON CHECKLIST	BRF//MP BAGHOUSE DUST COLLECTOR MEDIUM PRESSURE	BRF//RA BAGHOUSE DUST COLLECTOR REVERSE AIR	Leading Round Baghouse Dust Collector	Leading Square Baghouse Dust Collector
Sloped Roof				
Powder Coated				
Self Cleaning				
Exact Pulse™				
Auto-Calibrate				
Heavy Duty Construction 10 & 3/16 Gauge				
No Plant Compressed Air Required				
Direct Drive Shaft				
High Entry Option				
Inlet Baffles				
Tangential Entry Option				
Perforated Cone				
Minimal Maintenance				
Custom System Design				
Tool Free Filter Change-out				
Most Energy Efficient				
ServiceMAXX Support				

BRF BAGHOUSE APPLICATIONS

The BRF excels in this application, with options to handle all sizes and types of grain dust. BRF baghouses are found everywhere from small processing facilities to national grain handling terminals.

GRAIN INDUSTRY



SEED

The BRF baghouse efficiently handles dust from seed processing. BRF baghouses are designed to handle coarse, abrasive, or fine dust. The system can be customized for individual needs to target specific dust problems.

The BRF baghouse is popular for woodworking applications because of its durability and efficiency. With applications ranging from lumber mills to cabinet and flooring manufacturing, The BRF can handle your woodworking challenges.

WOODWORKING



RECYCLING

Whatever product you're recycling, the BRF baghouse has a solution for your dust collection. BRF baghouses are being used for recycling applications ranging from rubber to carpet, with options available for any recycling challenge.

Dust is probably being generated at lots of places in your feed manufacturing facility. A BRF Baghouse is the perfect piece of equipment for your facility. Feed is also a concern when it comes to combustible dust.

FEED



AGGREGATE

The BRF baghouse can be customized to handle tough, heavy, or sharp material. When collecting dust from aggregate processing, you need a baghouse that has been proven to handle these challenges.

With an abrasive dust like silica, the BRF baghouse stands out for efficiency and endurance. With available options to provide abrasion resistance and a history of success in the silica handling industry, the BRF is the right dust collector for this application.

SILICA



ABORTGATE

A great option for fire and contaminated air diversion. The Abort Gate goes on the clean air return ductwork and protects workers and facility.

EIV

EXPLOSION ISOLATION VALVE

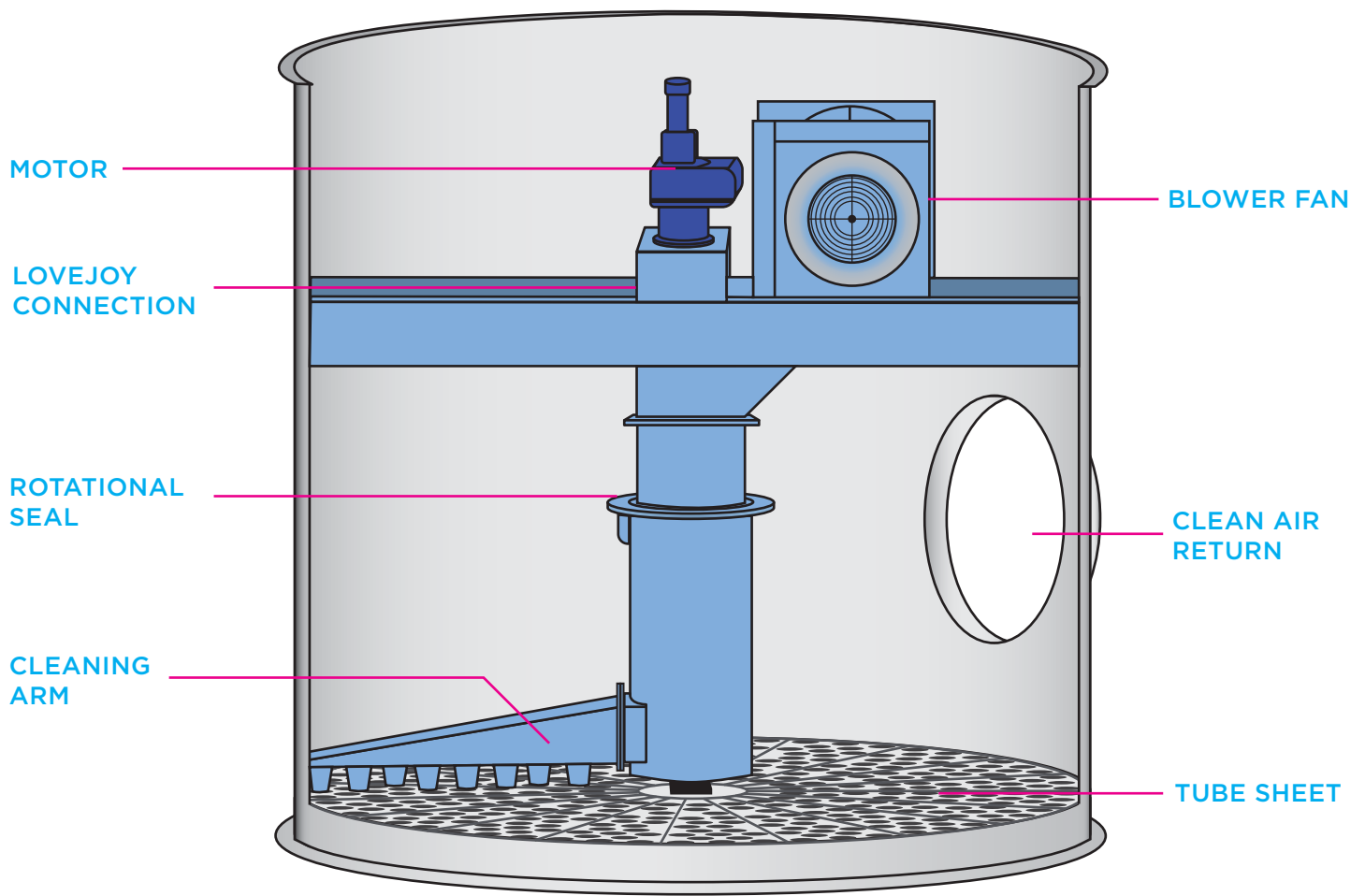
This is a must if you have combustible dust. The EIV will protect you from a back draft in case of a deflagration. This option gets installed on the dirty air ductwork.





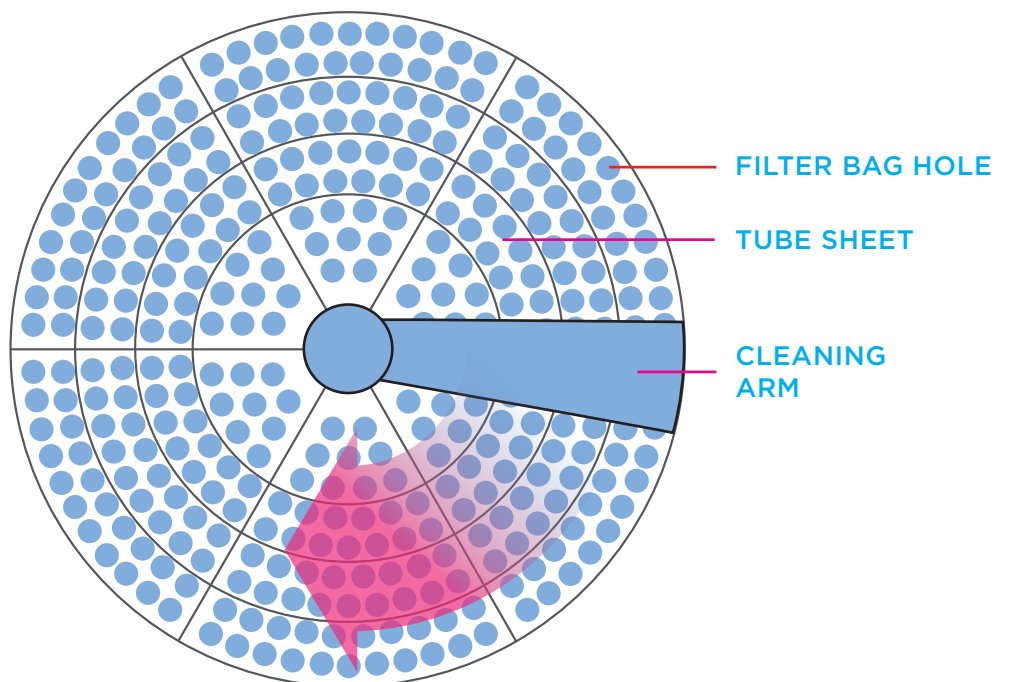
BRF//RA

REVERSE AIR CLEANING SYSTEM

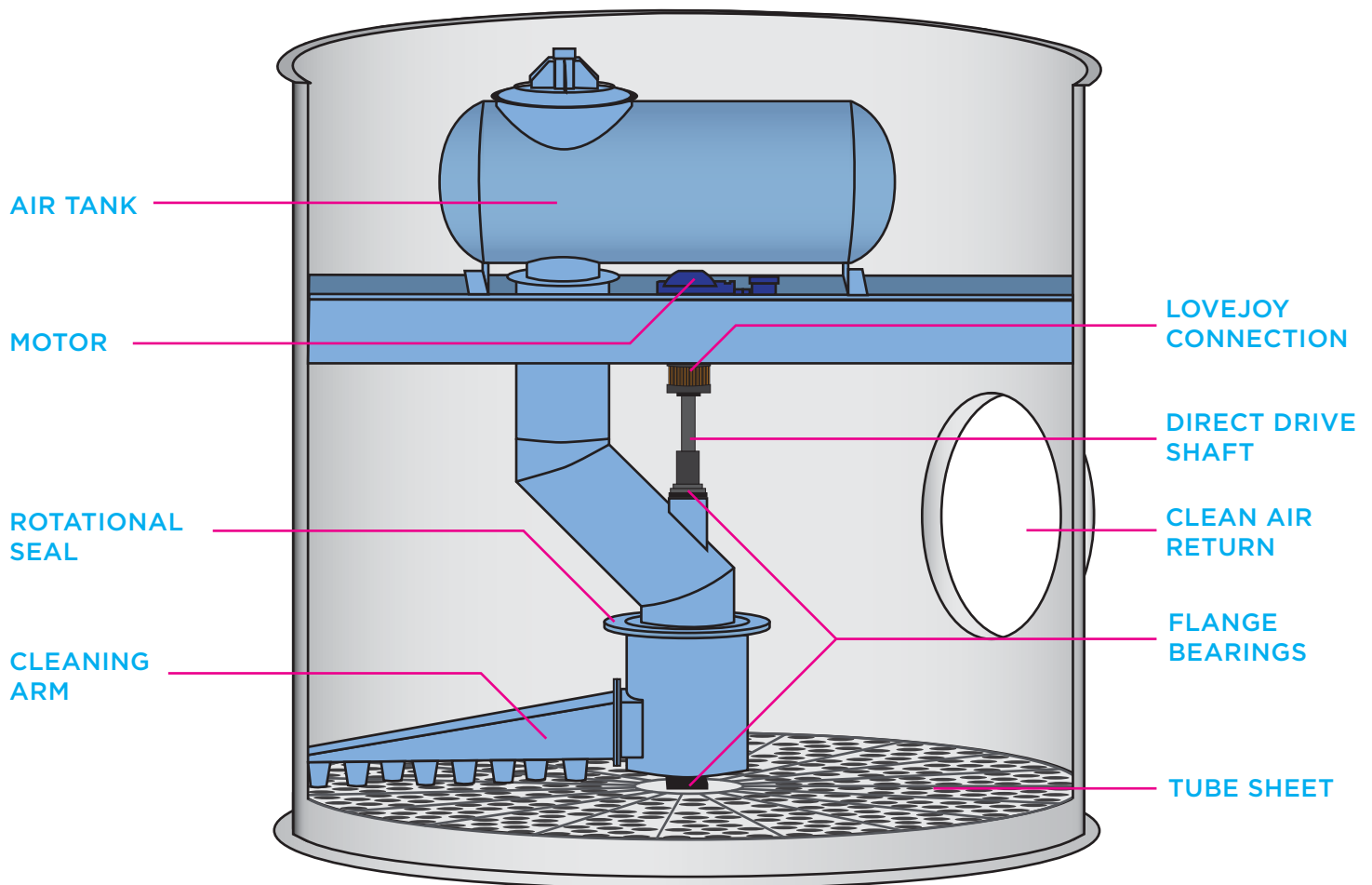


REVERSE AIR BAGHOUSE

The Reverse Pressure BRF is an all-purpose baghouse suitable for most materials. The filter bags are cleaned by a fan that rotates over them. One major advantage to our reverse pressure baghouse design is that unlike some other baghouses, the entire BRF can stay online while the filters are being cleaned. All the filters in the Reverse Air BRF are constantly in operation. Because our reverse air baghouse uses a fan for cleaning, it does not require any compressed air.

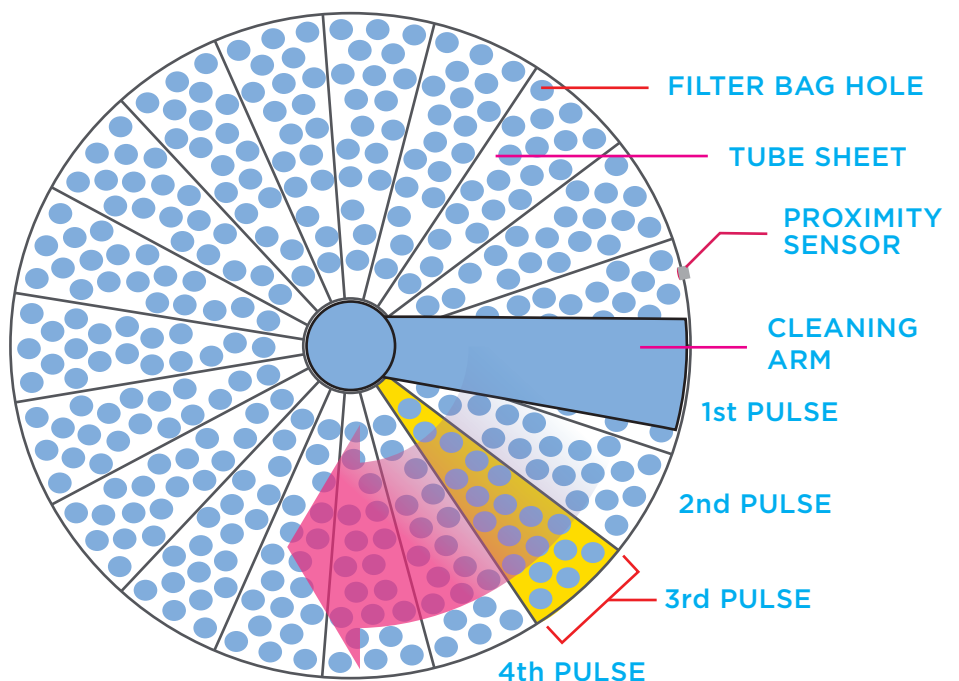


BRF//MP MEDIUM PRESSURE CLEANING SYSTEM



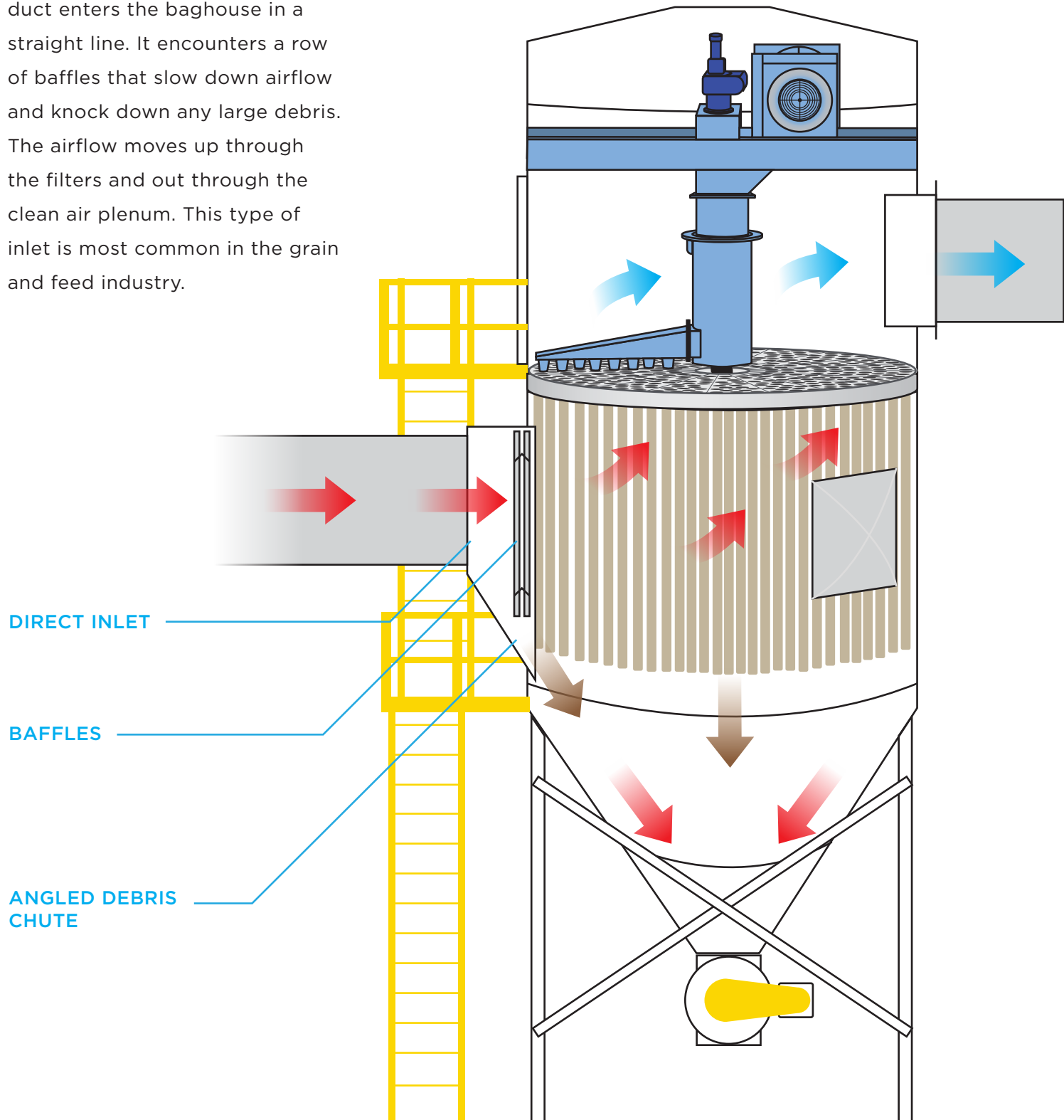
MEDIUM PRESSURE BAGHOUSE

The Medium Pressure BRF uses its own compressor (positive displacement pump) to produce compressed air that pulses through the filter bags. A rotating arm is designed to make sure that every bag gets cleaned consistently. A proximity sensor ensures that the cleaning arm is in perfect alignment. Because the bags are cleaned with a pulse of compressed air, more dust is broken loose from the bag surface. One section of the tube sheet is pulsed per rotation. During the rotation the proximity sensor keeps the arm aligned for the next section to be Exact Pulsed.



HIGH ENTRY INLET

With the high entry inlet, the duct enters the baghouse in a straight line. It encounters a row of baffles that slow down airflow and knock down any large debris. The airflow moves up through the filters and out through the clean air plenum. This type of inlet is most common in the grain and feed industry.



TANGENTIAL INLET

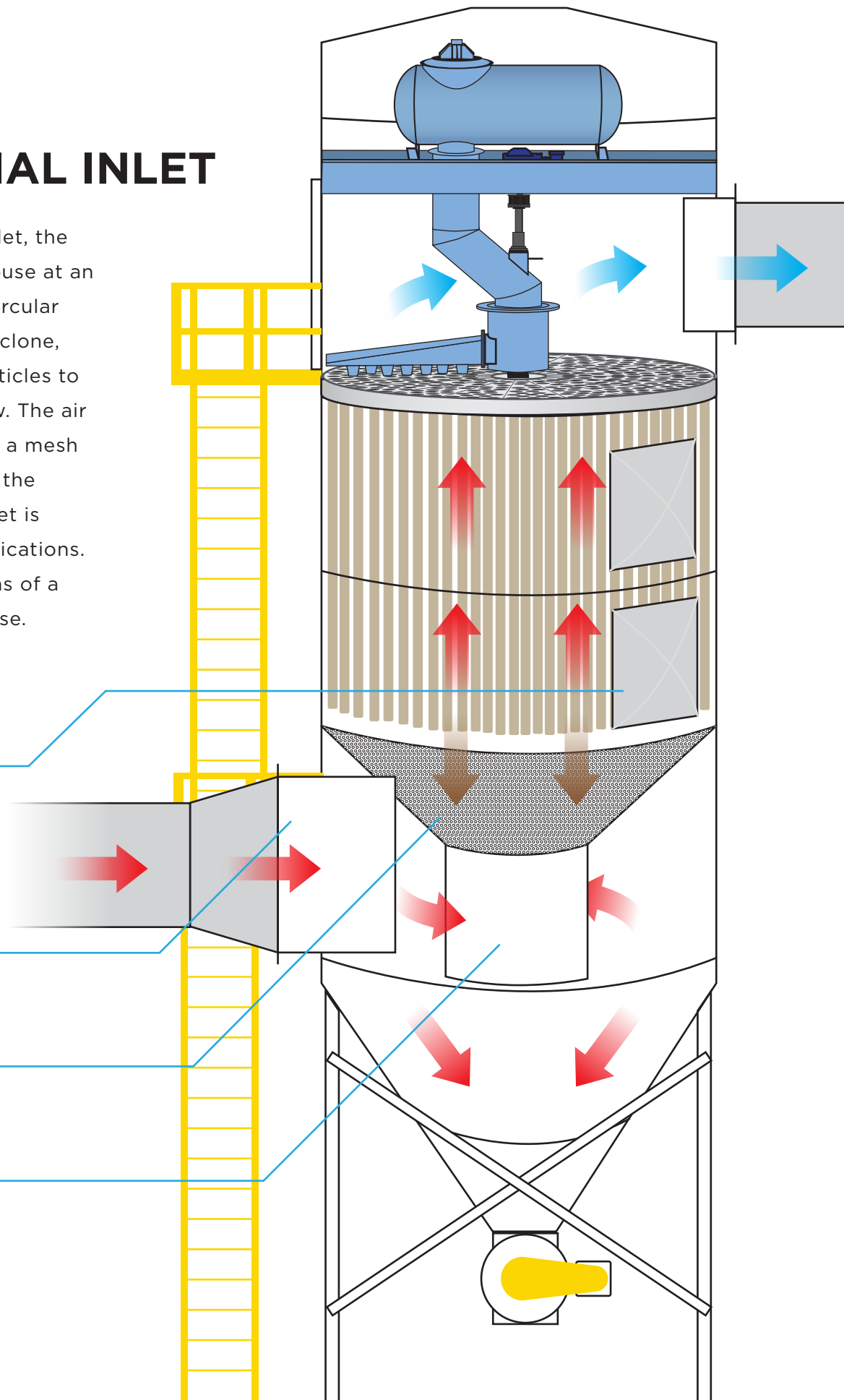
With the tangential inlet, the duct enters the baghouse at an angle. This causes a circular motion of air, like a cyclone, that causes larger particles to drop out of the airflow. The air is then pulled through a mesh cone before it gets to the filters. This type of inlet is common in many applications. It combines the actions of a cyclone and a baghouse.

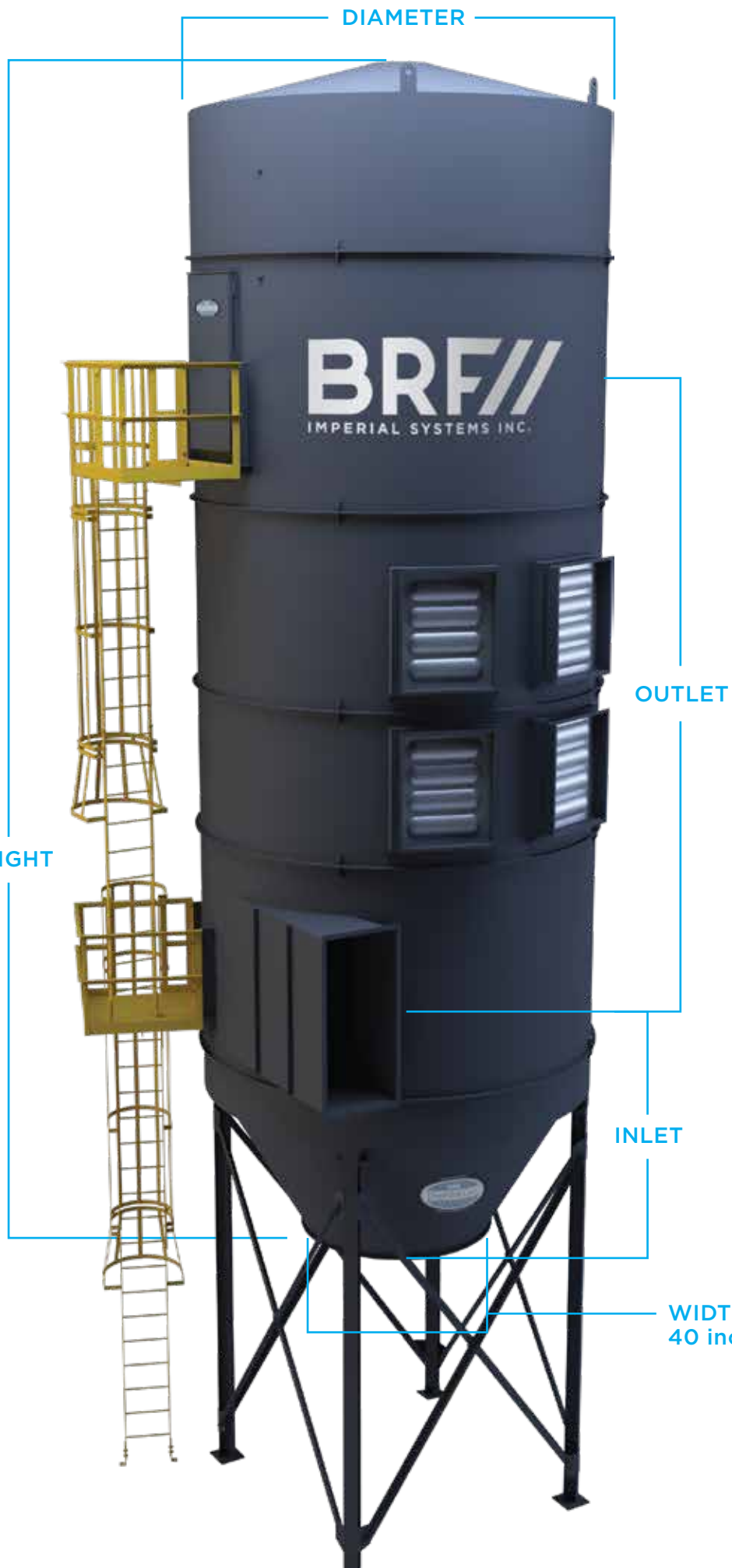
EXPLOSION VENT

ANGLED INLET

PERFORATED CONE

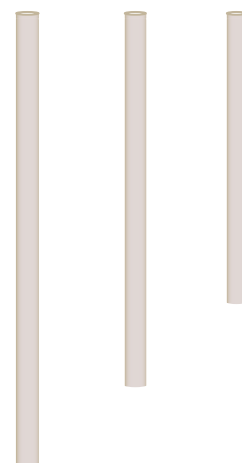
CYCLONE SECTION





BAG LENGTH OPTIONS

12' 10' 8'



BRF//RA

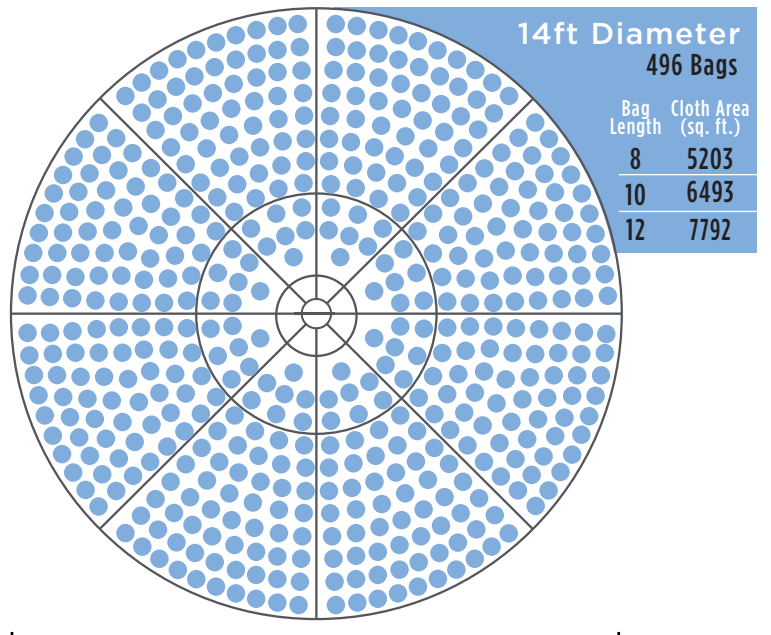
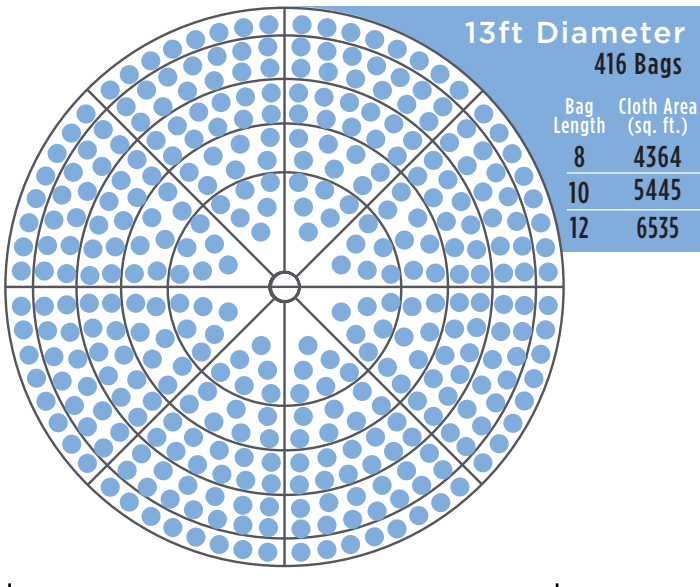
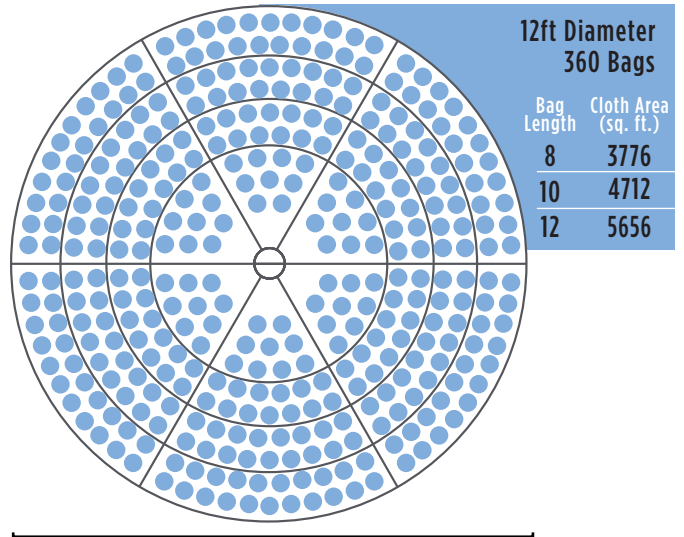
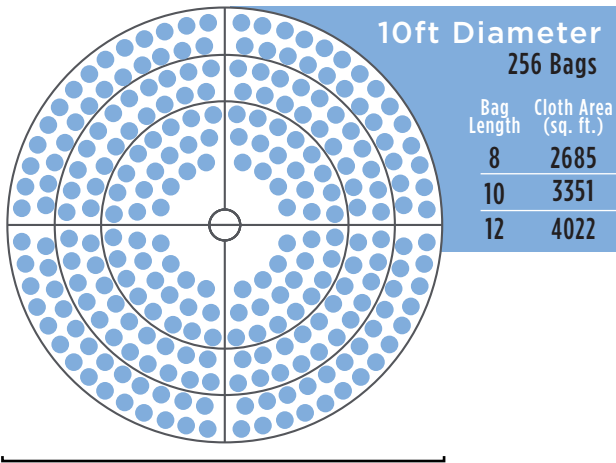
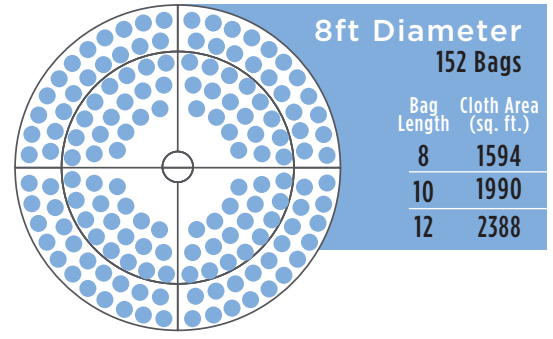
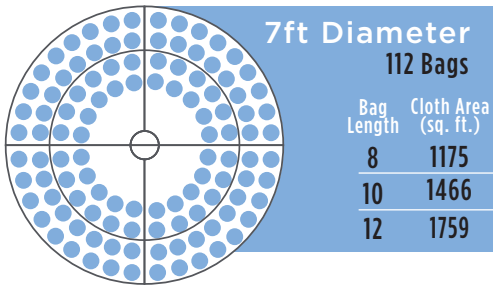
BAGHOUSE DUST COLLECTOR

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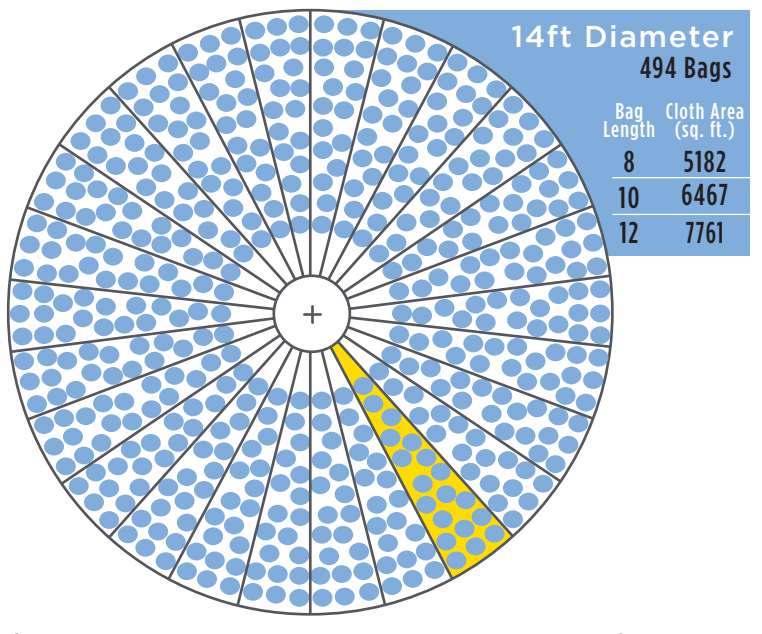
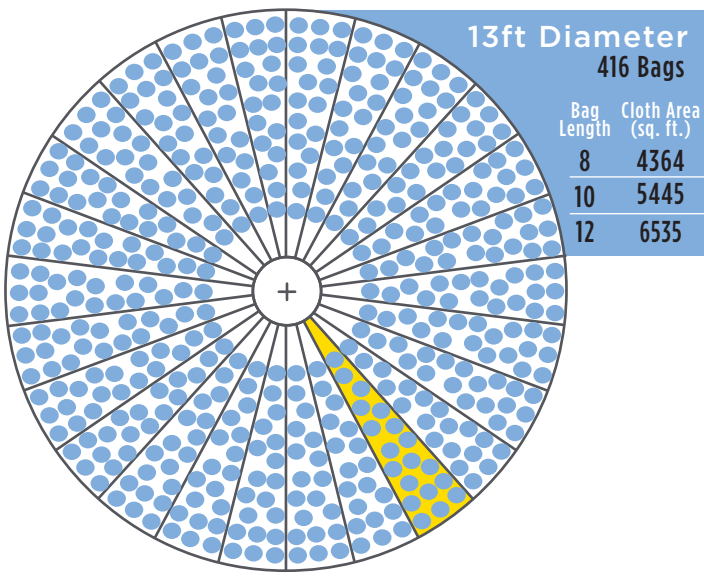
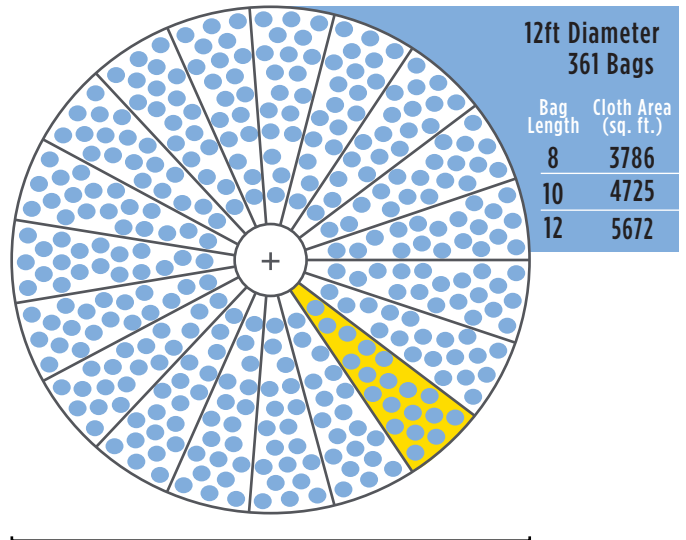
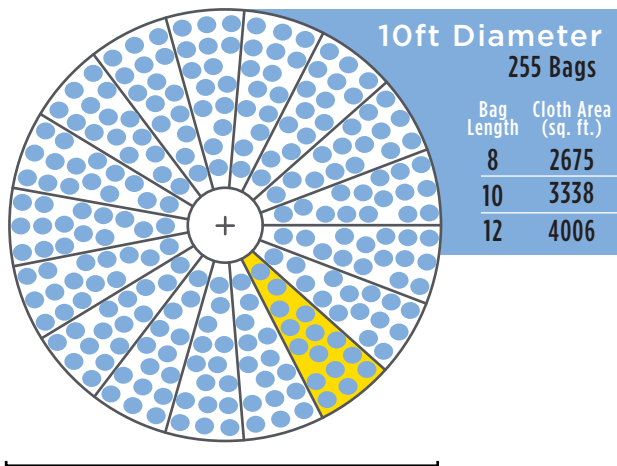
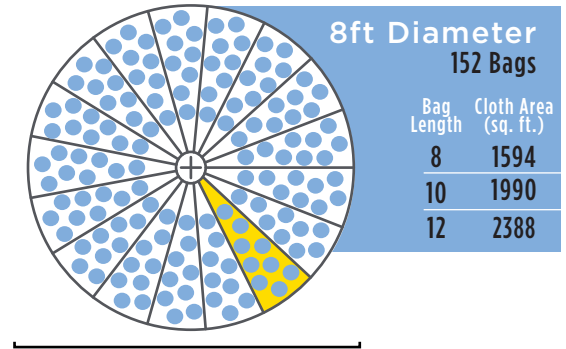
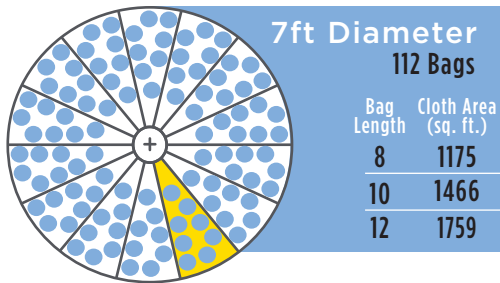
BAGHOUSE DUST COLLECTOR

DIAMETER		Bag Length Options			Bag Length Options		
		12ft Bag	10ft Bag	8ft Bag	12ft Bag	10ft Bag	8ft Bag
7ft	WEIGHT (lbs)	8600	8000	7400	8800	8200	7600
	HEIGHT (in)	331	303	288	414	366	330
	OUTLET (in)	78	76	75	249	225	201
	INLET (in)	150	148	145	60		
	HP Req.	10hp blower			3hp PD pump		
8ft	WEIGHT (lbs)	9800	9200	8500	10000	9400	8700
	HEIGHT (in)	348	293	278	434	386	341
	OUTLET (in)	80	78	76	252	228	204
	INLET (in)	162	160	158	75		
	HP Req.	10hp blower			3hp PD pump		
10ft	WEIGHT (lbs)	13000	12100	11300	13200	12300	11500
	HEIGHT (in)	385	357	342	469	421	385
	OUTLET (in)	85	83	81	256	232	208
	INLET (in)	188	186	184	99		
	HP Req.	20hp blower			5hp PD pump		
12ft	WEIGHT (lbs)	16400	15010	14200	16600	15210	14400
	HEIGHT (in)	421	392	376	501	453	417
	OUTLET (in)	89	87	84	258	234	210
	INLET (in)	213	210	208	122		
	HP Req.	25hp blower			5hp PD pump		
13ft	WEIGHT (lbs)	19299	17750	16700	19400	17950	16900
	HEIGHT (in)	438	409	392	520	472	436
	OUTLET (in)	91	88	85	261	237	213
	INLET (in)	225	223	220	135		
	HP Req.	25hp blower			5hp		
14ft	WEIGHT (lbs)	20600	19100	18000	20800	19300	18200
	HEIGHT (in)	457	428	361	539	491	455
	OUTLET (in)	94	91	88	264	240	216
	INLET (in)	238	236	233	148		
	HP Req.	30hp blower			5hp PD pump		

REVERSE AIR BAGHOUSE Tubesheet



MEDIUM PRESSURE BAGHOUSE Tubesheet





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