



Industrial Dust Collectors

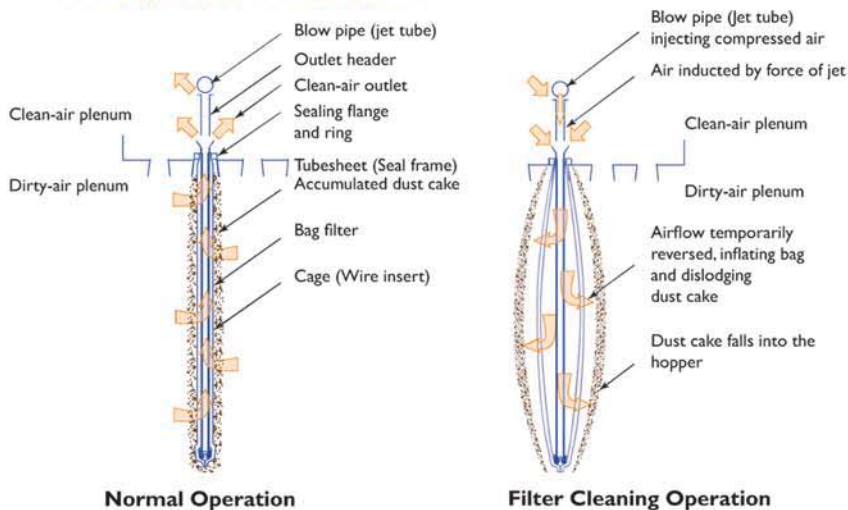
How It Works



Operating Principle

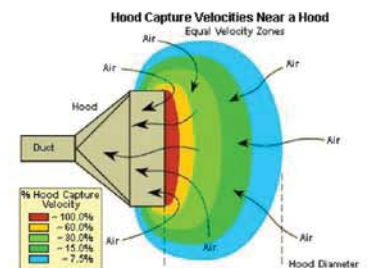
- > This is a continuous duty dust collector.
- > In this unit, filters are cleaned online during operation.
- > During normal operation, dust-laden air enters the unit through the air & dust inlet.
- > The velocity is reduced when dust particles enter and natural pre-separation is caused by gravity. Heavier particles will fall directly into the collection tank through the hopper and fine particles will accumulate on the outer surface of the filter bags. The clean, filtered air passes through the center of the filter bags and discharges through the clean air outlet.
- > The fine dust particles that are accumulated in the outer surface of the filter bags are cleaned by the reverse pulsejet cleaning system using compressed air at regular time intervals. This dust will be collected in the collection tank.

Principles of Filtration



Principles of Hood Placement

Proximity of Dust Source Affects Hood Velocity



In order to ensure good capture of dust laden air, the hood must be close to the emission source

baghouse dust collectors

Components



Centrifugal Blower



Filter Bag / Cartridge Filter



Rotary Airlock Valve



Magnehelic Gauge

Pulse Valve

Sequential Timer

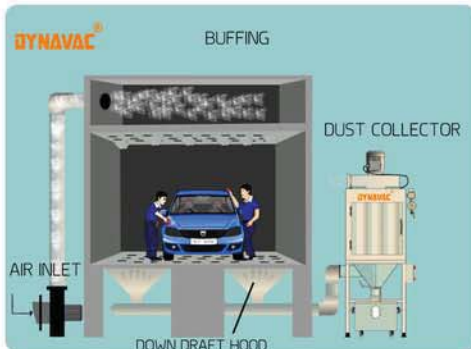
FRL Unit

Technical Specification

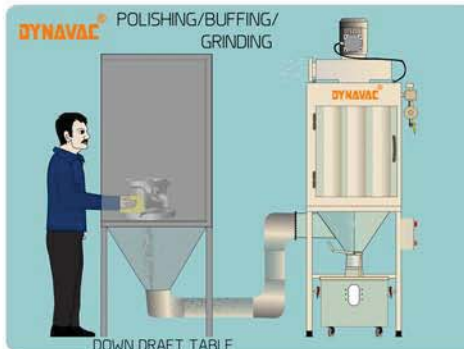
Model	Power (kw)	Airflow (m ³ /Hr)	Filter Surface Area (m ²)	Dimension LxBxH (m)	Filter Cleaning Mechanism	Location
MB 15 PJ 20	11.25	6000	20	1.8 x 1.2 x 6.6	Automatic Pulse Jet	Outdoor
MB 20 PJ 83	15	12000	83	2.5 x 1.8 x 8.9	Automatic Pulse Jet	Outdoor
MB 25 PJ 83	18.5	12500	83	2.5 x 1.8 x 8.9	Automatic Pulse Jet	Outdoor
MB 30 PJ 120	22	12500	120	2.6 x 2.5 x 8.9	Automatic Pulse Jet	Outdoor
MB 30 PJ 175	22.5	14750	175	3.4 x 2.7 x 9.6	Automatic Pulse Jet	Outdoor
MB 60 PJ 280	45	33000	280	5 x 2.4 x 9.6	Automatic Pulse Jet	Outdoor
MB 75 PJ 400	55	36100	400	5.5 x 3.2 x 9.6	Automatic Pulse Jet	Outdoor

* bag house dust collectors are manufactured according to customer requirements; the table above has are some of our customized models

applications



Dust collection via down draft hoods during automobile buffing operation while fresh air is continuously fed into the grinding area



Dust extraction using down draft table connected to Dust Collector



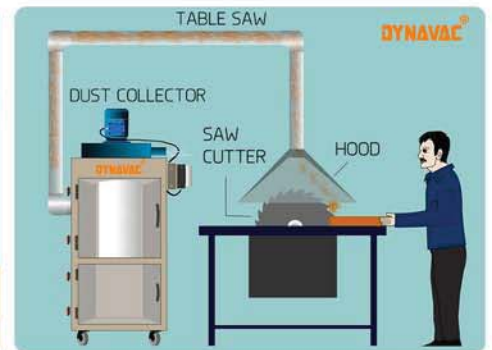
Dust collection from surface grinding operation



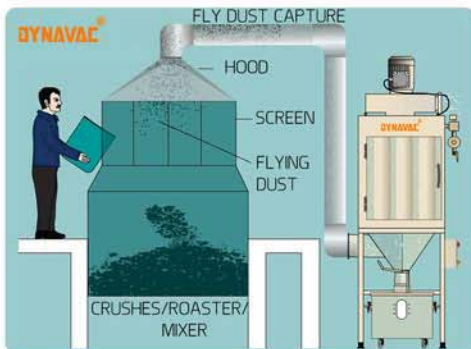
Empty wrappers collection on a conveyor belt with adjustable canopy hood



Dust extraction through exhaust hood fitted around grinding wheel



Dust extraction from sawing operation with canopy hood



Fly dust captured during material feeding operation with canopy hood



Dust extraction from pipe grinding operation



Fly dust collection during product weighing with fixed canopy hood



Dust collection from sawing operation with customized exhaust hood fitted around grinding wheel



Dust particles collection from sifter during sieving operation



Fumes are sucked-out with the help of articulated arm, during welding operation



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