

# DUST COLLECTORS

Quality solutions for a clean environment



Efficient

•



Rugged

•



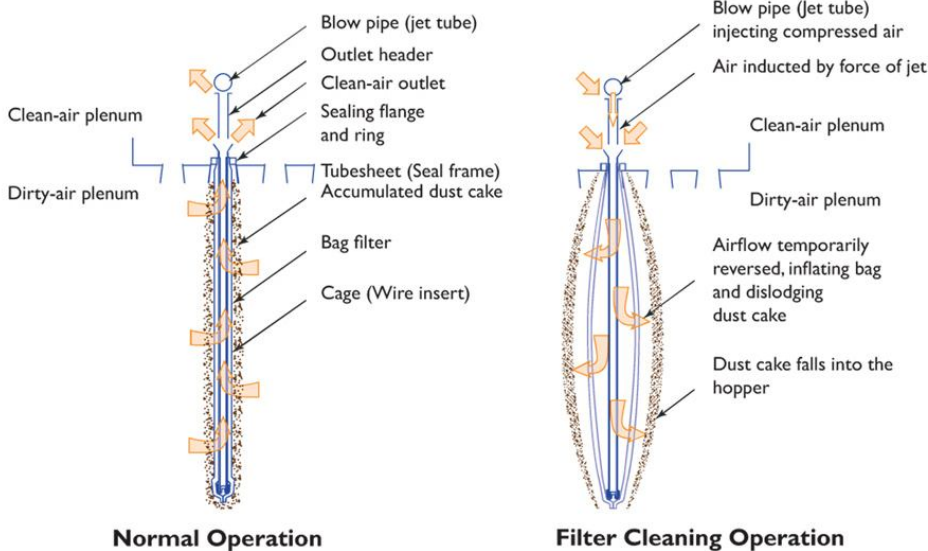
Durable



## How It Works

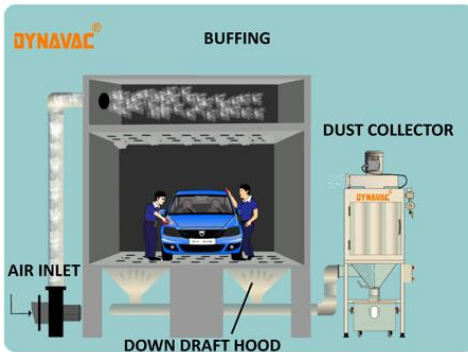


## Principles of Filtration

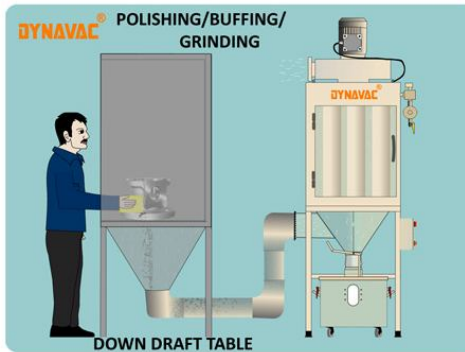


## Operating Principles

- » This is a continuous duty dust collector.
- » In this unit, filters are cleaned on line when the fan is on.
- » During normal operation, dust-laden air enters the unit through the dirty air inlet.
- » The velocity is reduced when dust particles enter and natural pre-separation is caused by gravity. Hence, Heavier particles will fall directly into the collection tank through hopper and fine particles will accumulate on the outside surface of 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 compressed air at regular time intervals and the same will be collected in the collection tank.



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



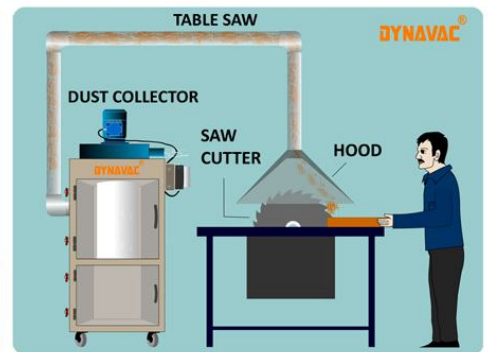
Dust collection from surface grinding operation



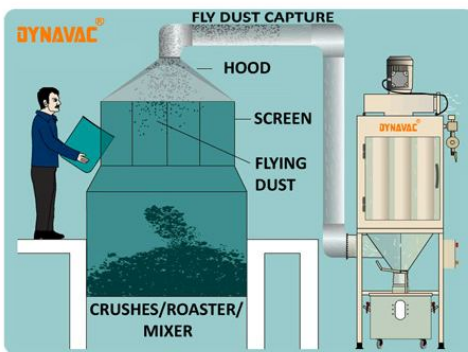
Empty wrappers collection on a conveyor belt with adjustable canopy hood



Dust extraction through exhaust hood fitted around grinding wheel



Dust extraction from sawing operation with canopy hood



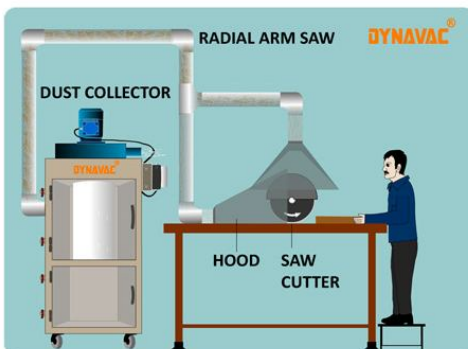
Flying dust captured during material feeding operation with canopy hood



Dust extraction from pipe grinding operation



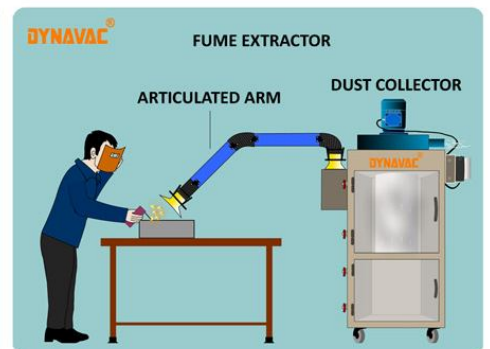
Fly dust collection during product weighing with fixed canopy hood



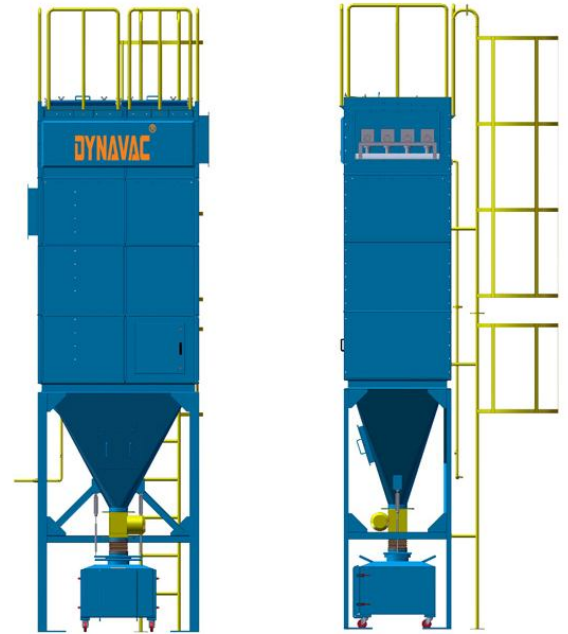
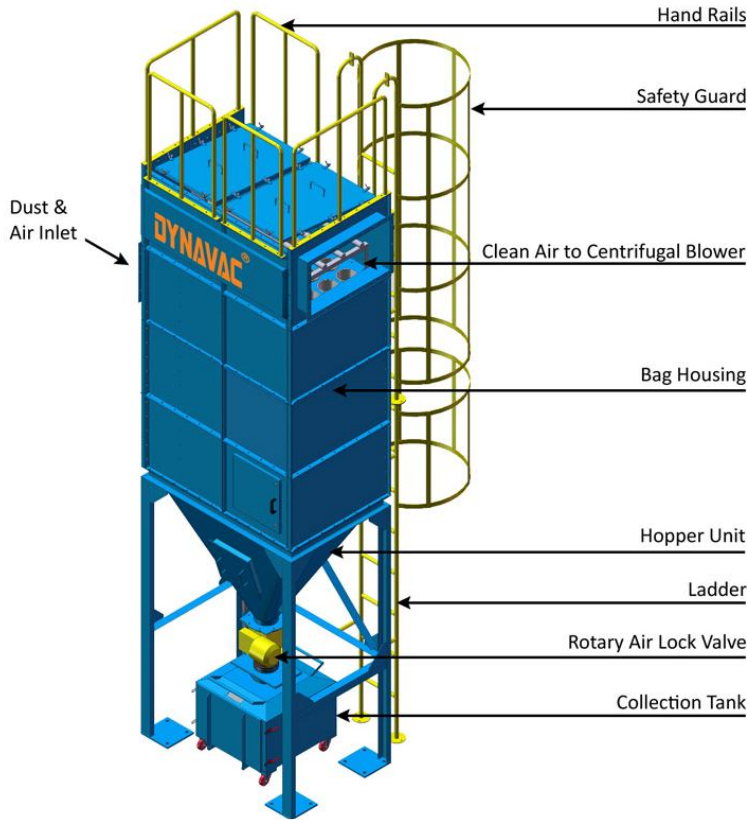
Dust collection from sawing operation with customized exhaust hood fitted around grinding wheel



Dust particles collection from sifter during sieving operation



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



Front View

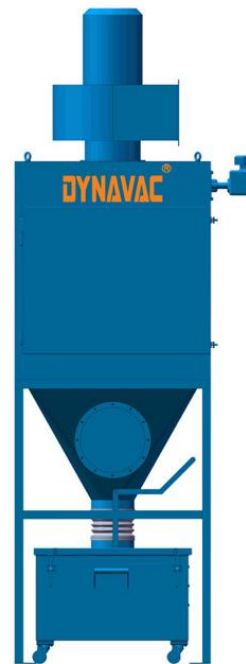
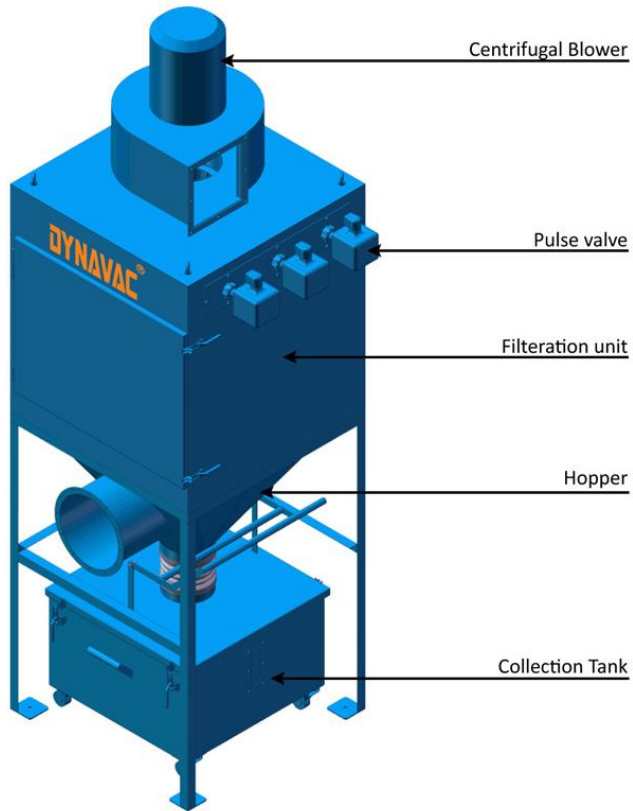
Side View

## MACHINE SPECIFICATION

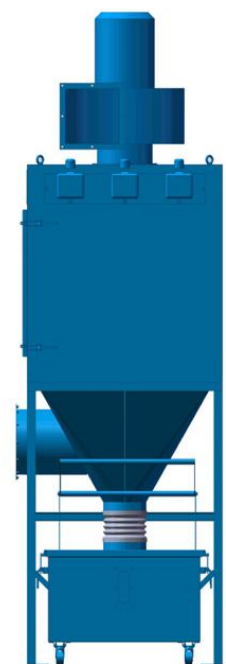
PARAMETERS	MB (hp) PJ 20	MB (hp) PJ 30	MB (hp) PJ 45	MB (hp) PJ 120
Filter area (m <sup>2</sup> )	20	30	45	120
Filter diameter (mm)	160	160	160	160
Filters length (mm)	2100	2100	2100	3500
Filter quantity (nos)	20	30	45	72
Filter material	Polyester	Polyester	Polyester	Polyester
Collection tank capacity (litres)	350	400	600	800
Sound level (dB)	85	85	85	85
Construction material	MS	MS	MS	MS
Filter cleaning	Reverse Pulse Jet System For Continuous Operation			

## FILTRATION SPECIFICATION

PARAMETERS	MB05PJ20	MB05PJ20A	MB30PJ120
Air flow in m <sup>3</sup> /hr	2800	2800	12500
Vacuum in mm of H <sub>2</sub> O	250	250	250
Power in Hp	5	5	30
Voltage & Frequency (Volts/Hz)	415/ 50	415/ 50	415/ 50
Fan type	Direct drive	Direct drive	Direct drive
Motor speed in RPM	2880	2880	2880
Noise Level in db	85	85	85
Cloth filter area in m <sup>2</sup>	20	20	120
Filter diameter in mm	160	160 (collar type)	160
Filter length in mm	2100	2100	3500
Filter material	Polyester	Polyester	Polyester
No of filters	20	20	72
Machine length in mm	4100	4100	5300
Machine width in mm	2400	2400	3400
Machine height in mm	6600	6600	9100
Machine weight in kg	2000	2000	3000
Collection capacity in lts.	350	350	800
Rotary Valve Type/HP/phase	Direct drive/0.5/ø3	Direct drive/0.5/ø3	Direct drive/0.5/ø3
Compressed air in bar	6	6	6
Construction material	MS	MS	MS
Filter cleaning	Reverse Pulse Jet System For Continuous Operation		



Front View

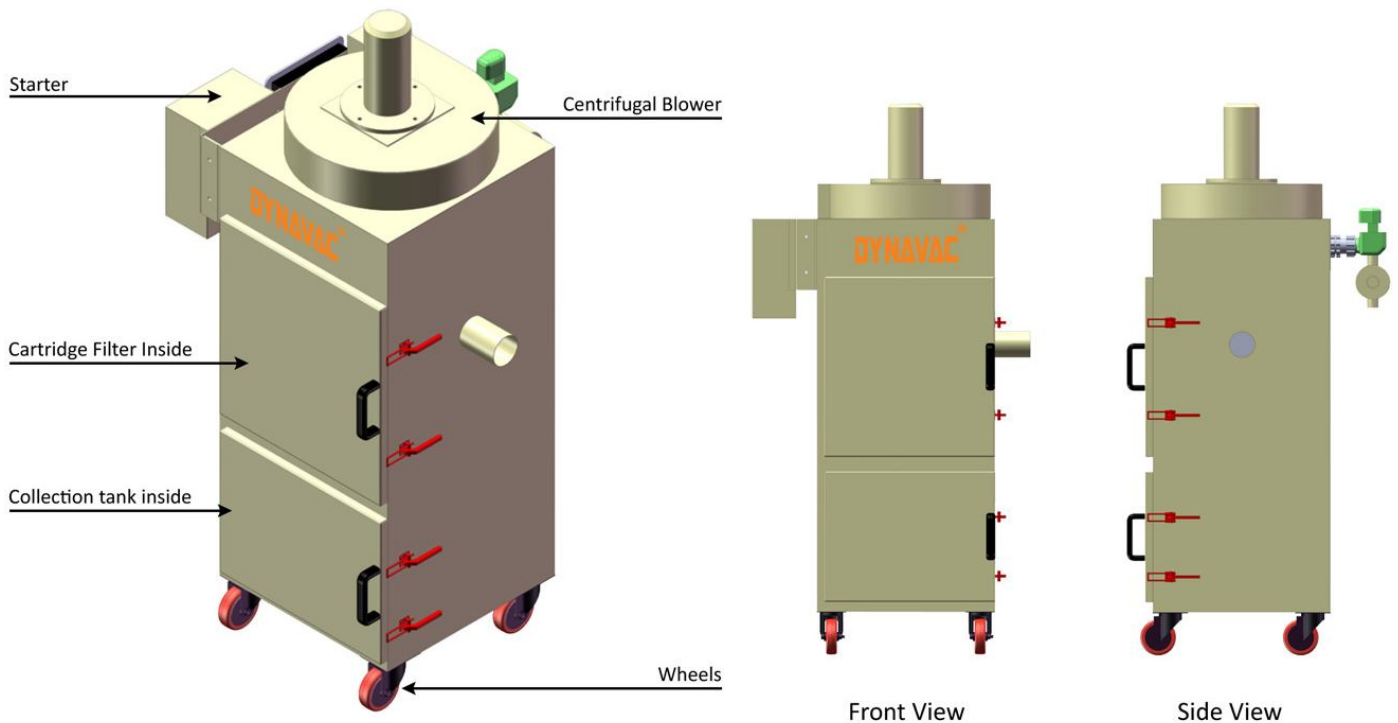


Side View

## TECHNICAL SPECIFICATION

PARAMETERS	DC LF PJ 1 (4 BAGS)	DC LF PJ 2 (4 BAGS)	DC LF PJ 3 (4 BAGS)	DC LF PJ 5 (4 BAGS)	DC LF PJ 7 (4 BAGS)	DC LF PJ 7 (9 BAGS)	DC LF PJ 10 (9 BAGS)
Air flow (m <sup>3</sup> /hr)	1400	1850	1950	2800	3500	3500	5000
Static pressure (mm H <sub>2</sub> O)	100	150	200	250	250	250	250
Motor rating (HP)	1	2	3	5	7.5	7.5	10
Voltage & Frequency (V & Hz)	415/ 50	415/ 50	415/ 50	415/ 50	415/ 50	415/ 50	415/ 50
Power in HP	1	2	3	5	7.5	7.5	10
Speed (RPM)	2880	2880	2880	2880	2880	2880	2880
Filter diameter (mm)	200	200	200	200	200	200	200
Filters length (mm)	700	700	700	700	700	700	700
Vacuum in mm of H <sub>2</sub> O	100	150	200	250	250	250	250
Noise level in db	76	76	85	85	85	85	85
Maximum Load in amps	1.4	2.6	3.8	6.9	10.8	10.8	13.5
Filter quantity (nos)	4	4	4	4	4	9	9
Filter material <sup>1</sup>	Polypropylene/ Polyester	Polypropylene/ Polyester	Polypropylene/ Polyester	Polypropylene/ Polyester	Polypropylene/ Polyester	Polypropylene/ Polyester	Polypropylene/ Polyester
Filter area (m <sup>2</sup> )	1.78	1.78	1.78	1.78	1.78	4	4
Collection tank capacity (litres)	100	100	100	100	100	200	200
Sound level (dB)	85	85	85	85	85	85	85
Depth (mm)	700	700	700	700	700	900	900
Width (mm)	700	700	700	700	700	900	900
Height (mm)	3000	3000	3000	3000	3000	3000	3000
Construction material	MS	MS	MS	MS	MS	MS	MS
Insulation Class	F	F	F	F	F	F	F

## PORTABLE DUST COLLECTOR



## TECHNICAL SPECIFICATION

PARAMETERS	DC SQ 0.5	DC SQ 1	DC SQ 2	DC SQ 3	DC 0.5	DC 1	DC 2	DC 3	DC 5
Voltage & Frequency(Volts/Hz)	415/50	415/50	415/50	415/50	415/50	415/50	415/50	415/50	415/50
Power in HP	0.5	1	2	3	0.5	1	2	3	5
Maximum Load in amps	1.1	1.4	2.6	3.8	0.7	1.4	2.6	3.8	5.9
Speed of motor in RPM	2880	2880	2880	2880	2880	2880	2880	2880	2880
Maximum Vacuum in mm H <sub>2</sub> O	75	100	150	200	75	100	150	200	250
Airflow in m <sup>3</sup> /Hr	595	1025	1488	1950	800	1400	1850	1950	2800
Noise level in db	75	76	80	85	76	76	76	80	85
Insulation class	F	F	F	F	F	F	F	F	F
Collection capacity in litres	60	60	60	60	40	40	40	55	70
Hose diameter in mm	75	100	150	200	75	100	150	200	250
Absolute filter surface area in m <sup>2</sup>	1.92	1.92	1.92	1.92	0.18	0.18	0.18	0.25	0.81
Dimension in m L X B X H	0.69x0.69x1.55	0.69x0.69x1.55	0.69x0.69x1.55	0.69x0.69x1.55	0.50x1.1	0.50x1.1	0.50x1.1	0.60x1.2	0.80x1.3
Weight in Kg	85	91	95	108	55	60	75	110	120

## WOOD DUST COLLECTOR



## TECHNICAL SPECIFICATION

PARAMETERS	DCW 0.5	DCW 1	DCW 2	DCW 3	DCW 5
Voltage & Frequency (Volts/Hz)	415/50	415/50	415/50	415/50	415/50
Power in HP	0.5	1	2	3	5
Maximum Load in amps	0.7	1.4	2.6	3.8	5.9
Speed of motor in RPM	2880	2880	2880	2880	2880
Maximum Vacuum in mm H <sub>2</sub> O	75	100	150	200	250
Airflow in m <sup>3</sup> /Hr	800	1400	1850	1950	2800
Filter bag surface area in m <sup>2</sup>	0.67	0.67	0.67	0.67	0.67
Noise level in db	76	76	76	85	85
Insulation class	F	F	F	F	F
Collection capacity in litres	170	170	170	170	170
Hose diameter in mm	75	100	150	200	250
Absolute filter surface area in m <sup>2</sup>	0.67	0.67	0.67	0.67	0.67
Dimension in m L X B X H	1.4x0.6x2.1	1.4x0.6x2.1	1.4x0.6x2.1	1.4x0.6x2.1	1.4x0.6x2.1
Weight in Kg	60	65	70	80	95

**ACCESSORIES**



Down Draft Table



Gravity Dump Valve  
(Pneumatic & Motorized Optional)



Articulated Arm



Sliding Damper

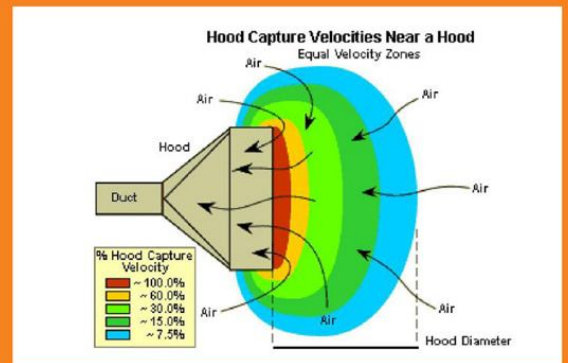


Rotary Airlock Valve

**DUST CAPTURE HOODS**



**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

## QUALITY SOLUTIONS FOR A CLEAN ENVIRONMENT

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Phone: +91 422 6526211, 6475201 . Fax: +91 422 2472267 . e-mail: [sales@dynavac.org](mailto:sales@dynavac.org)  
302, ALG Farms, Nambialaganpalayam, Vedapatti (P.O), Coimbatore - 641 007, Tamilnadu, india