

The Duster 3000 DownDraft

The total solution to shop air pollution.

The Duster 3000 DOWNDRAFT is a mobile prep station designed and engineered to remove harmful airborne contaminants found in dust when sanding old paint, rusted metal and fillers.

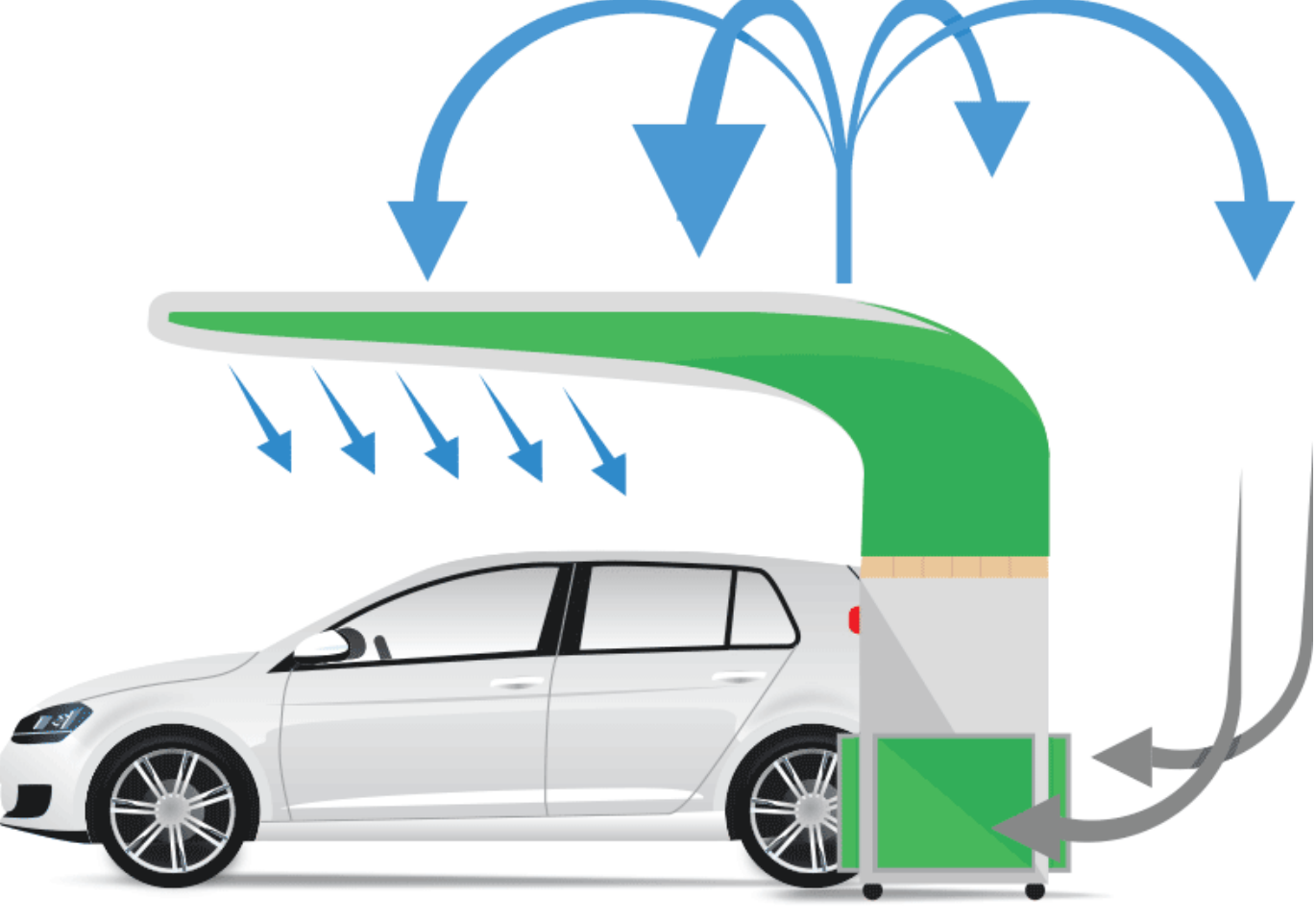


FEATURES INCLUDE:

- Provides cleaner air for worker environment
- Reduce sick days
- Reduces winter heating and summer air conditioning costs
- Quick return on capital equipment investment – less than 6 months
- Reduces redos caused by cross contamination
- Energy Efficient – economical to operate
- Mobile – easily moved to where it is required
- Efficient use of production floor space
- No ventilation or makeup air required
- Powerful motor re-circulates air at over 3,000 cfm

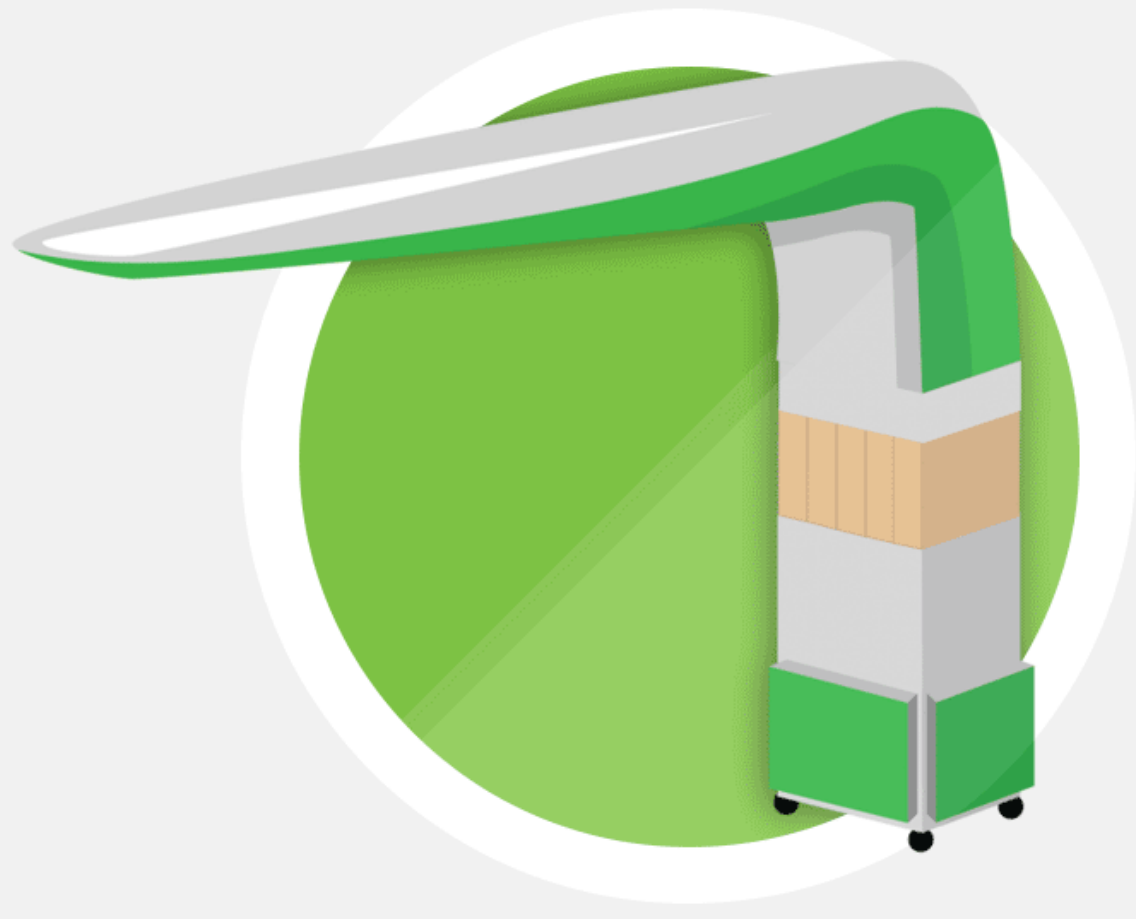
How the Duster 3000 Downdraft works.

- 1 Positive airflow discharged from the top of machine creates a negative pressure “capture” zone at base of unit.
- 2 Dirty air is drawn in through the three intake openings at floor level.
- 3 Contaminated air is drawn through the four stage filters and cleaned down to 3 microns.
- 4 95% of the clean air is discharged through the black discharge diffuser located on the elbow of the plenum creating the mushroom airflow affect.
- 5 The remaining 5% is discharged from the underside and along entire length of plenum.
- 6 Mushroom airflow pattern created will effectively clean up to 5000 sq ft floor area.
- 7 Air is continuously re-circulated at over 3000cfm as long as the filter media is properly maintained.



Specifications

- Construction:** Unit body, double zinc coated sheet metal, gray powder coat finish
- Casters:** Heavy duty urethane swivel wheels
- Weight:** Net 181 Lbs (84 Kg.) Gross shipping wt. 320 lbs (145 Kg.) Size: Base, 30" x 32" (0.8 m x 0.9 m)
- Foot print:** 6.5 sq. ft. (0.60 m2)
- Height:** 8'-6" (2.6 m) clear to top of plenum
- Overall length:** 11'-10" (3.6 m)
- Electric motor:** 1-1/3 HP, 110Vac, 12 amps, 1 Ph explosion proof,thermally protected Electrical: CSA HazLoc certification to Class 1, Div. II, Group D and Class II, Div. II, Group F and G Sealed components for Hazardous Location (Hazloc) operation Two (2) light safety operating system
- Options:** CE Electrical setup for 220 Vac Truck plenum extension



Four Stage Filter System

Each of the four (4) stage OEM filters is specifically deigned and engineered for maximum filtration while allowing maximum airflow over a greater velocity range i.e. from 2,200 cfm to 3,900 cfm enabling capture of harmful airborne particulates as small as 3 microns, including toxic fumes and vapours associated with body shop environments.

			
Stage 1	Stage 2	Stage 3	Stage 4
PART NUMBER 11703	PART NUMBER 11205	PART NUMBER 11209	PART NUMBER 11207
Pre-filter pad, fiberglass paint arrester filter with Tackifier	4 inch Metal framed pleated intake filter for greater surface area allowing air to pass at lower velocity capturing particulate down to five (5) microns.	2 inch - 7 lb Activated carbon filter, removes VOCs, ISOs, toxic fumes and odours	Viledon discharge top pocket filter. Large surface area for depth loading. 98% Average Dust Spot Efficiency.
Cleanable	Cleanable	Not Cleanable	Not Cleanable
Life Expectancy 3-6 months depending on frequency of use and material used.	Life Expectancy 3-6 months depending on frequency of use and material used.	Life Expectancy 6-9 months depending on frequency of use and material used.	Life Expectancy 6-12 months depending on frequency of use and material used.

Activated Carbon Filters

Activated carbon adsorbs gas phase pollutants including VOCs and Isocyanates.The ability of adsorption is set out below.

CARBON CAPACITY REFERENCE CHART

For standard activated carbon four index capacity values are defined as follows

4 = High Capacity

3 = Satisfactory

2 = Borderline

1 = Poor

TYPICAL HARMFUL AIRBORNE SUBSTANCES & CHEMICALS INDICATING ACTIVATED CARBON CAPACITY RATINGS

Acetone	3	Satisfactory
Benzenes	4	High Capacity
Butyl Acetate	4	High Capacity
Chlorobenzene	4	High Capacity
Chloroform	4	High Capacity
Ethyl Benzene	4	High Capacity
Gasoline	4	High Capacity
Hexane	3	Satisfactory
Hexamethylene	3	Satisfactory
Methylene Chloride	3	Satisfactory
Methyl Ethyl Ketone	4	High Capacity

Naphtha	4	High Capacity
Nitro Benzenes	4	High Capacity
Ozone	4	High Capacity
Paint Fumes	4	High Capacity
Perchloroethylene	4	High Capacity
Pyridine	4	High Capacity
Smoke	4	High Capacity
Solvents	3	Satisfactory
Styrene Monomer	4	High Capacity
Toluene	4	High Capacity
Xylenes	4	High Capacity