

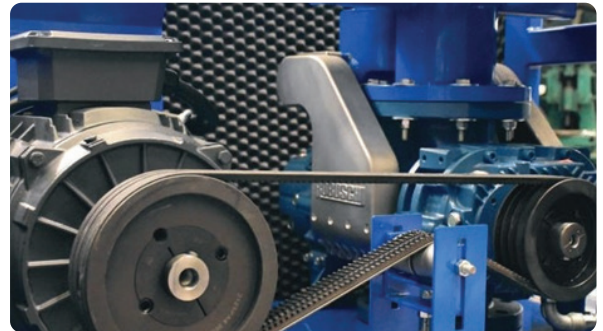
**Stationary / Trailer Mounted Industrial
Vacuum Cleaning
Machine**



Vacuum Cleaning Machine

ENSOL Stationary Industrial vacuum Cleaning system is reliable, easy to operate, with very low maintenance. It is used to suction dust and free flowing spillage material for cleaning and Re-cycling/ disposal.

The system consists of Vacuum Cleaning Machine, which is Electric power operated. A heavy duty AC electric motor drives a positive displacement Roots Type Vacuum Pump, which sucks the material through a centralized pipeline system. The machine is compact in design and is complete with Inlet and Exhaust silencer, filter system, compressor with automatic compressed air purging system, control panel with acoustic enclosure etc. The machine is the heart of the system.



DRIVE SYSTEM

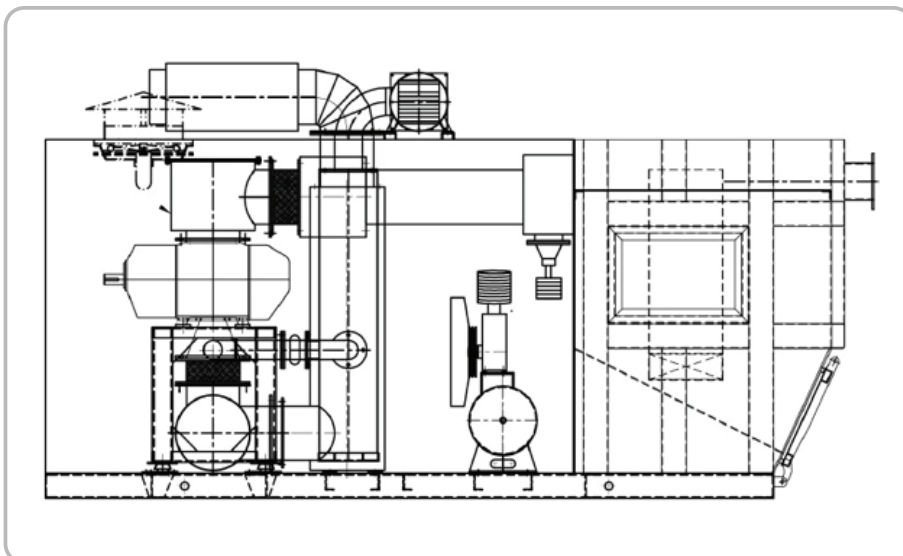
The suctioned material is not allowed to enter the vacuum pump. It is filtered and collected through an intercept filtration and storage hopper arrangement. The Twin stage intercept unit separates coarse and heavy particle through a twin cyclonic separator and fine dust is trapped through a set of pleated filters. This system ensures proper safety to the vacuum pump and clean exhaust air to the atmosphere. The suction system used with filter hoppers creates a high performance centralized vacuum suction, even with extensive piping network.

TECHNICAL DATA:

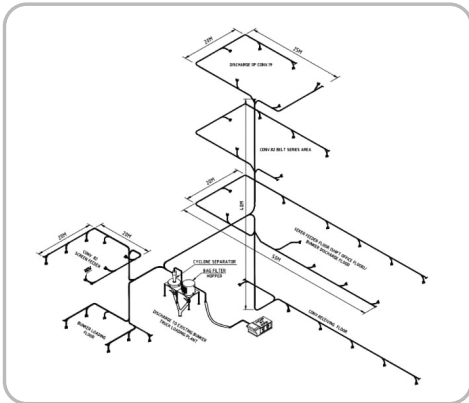
MODEL	110 E-ESVCM	130 E-ESVCM
Electric Motor Capacity (KW)	110 KW	130 KW
Vacuum Pump	Roots Type - Tri Lobe	Roots Type - Tri Lobe
Free Air Flow	Up to 4500 Cum/Hr.	Up to 6000 Cum/Hr.
Max Vacuum	80%	80%

Lower Capacity Models are also Available.

Trailer mounted Vacuum Cleaning machines of various capacities can also be provided. It can be powered by Electric Motor or by Diesel Engine



Centralized Vacuum Cleaning System

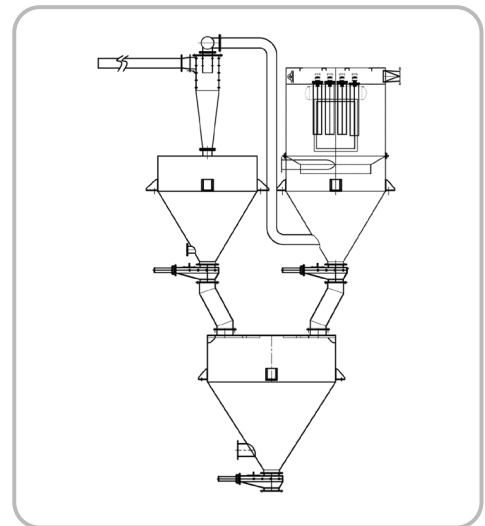


Pipeline Network

The Pipeline Network consist of main header, branch pipelines, horseback type Long Radius bends, V Couplings and with self-closing inlet valves, which are installed in different areas and on different levels at the site. Flexible hoses can then be connected to these self- closing ports and the operator can clean the area, using powerful vacuum suction. Different types of Suction nozzles/ tools are used for efficient and better cleaning. The dust and debris is removed through a closed system of pipes and carried back to one central location, with minimal effort and risk of dust exposure.

Intercept Hopper

Cyclonic Separator Hopper is for separating the coarse and heavy particles. It consists of Twin Cyclone. Most of the material suctioned through the pipeline is separated in the cyclone and stored in the hopper. A pneumatically actuated discharge valve is provided. This material can then be safely removed from the hopper and disposed, or if this material is of value, it can be returned back into the process by discharging onto an existing Conveyor. Air with fine dust particles goes to the Filter Hopper for separating the fine dust. It consists of filter chamber with reverse air jet purging for filter cleaning. The separated fine dust is stored in the hopper and is discharged through pneumatically actuated discharge valve. After passing through the filter and vacuum pump in the vacuum machine, clean air is exhausted.



Salient Features

- The centralized suction system is widely used for recovering material by transferring the material to a pre define collection point, and then putting them back in the production cycle or disposing them. Various waste discharge options are available for easy disposal or putting it back in to process - saving time and money
- Simultaneous multi-operator access, in different areas and over numerous levels
- Fully enclosed system keeps harmful dusts and waste contained
- Useful for keep the production line clean and efficient, thereby reducing the maintenance cost
- Eliminates manual handling and other associated Health issues
- It also improves safety and quality of the work environment, thus reducing the risk of any accident
- Range of tools and nozzles available to attach to flexible suction hose, allowing access to hard to reach areas
- Better Maintenance due to cleaning, minimizes production downtime

Application:

The system is very useful in Steel Plants, Cement Plants, Power plants , Aluminum Smelters, Ports and other Bulk material handling plants.

Aerial Platform



Road Sweeping Machine



Combined Suction Cum Jetting Machine



Fire Fighting Vehicle

ENSOLTM
ENVIRONMENTAL SOLUTIONS

(An ISO 9001:2015 Company)

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