

AIRVAC WITH CYCLONE SEPARATOR

Compact air operated abrasive vacuum system



AIRBLAST



Description

The Airvac with Cyclone Separator is a compact air-operated abrasive vacuum system that recovers abrasives for recycling. It is both efficient and cost effective.

Vacuum Recovery System

Incorporating the Airvac as the prime mover, it can produce above 14" Hg of vacuum when connected to an air supply of 250 cfm at 7 bar (100 psi). At these levels 3-5 tonne per hour recovery rates can be attained.

With just two units, a hopper/cyclone and a dust collector, the unit is flexible, extremely robust and easy to use, with the performance of larger more expensive machines. The system will in fact recover solids up to 50mm (2") in diameter over distances in excess of 100 metres, dependent upon particle size, type of material, volume and pressure of air supply. Maintenance and operator attention is reduced to a minimum, as the Airvac has only one moving part. With no electrical power required, there's no risk of fire or explosion, particularly important in inflammable areas. The system conforms to all health and safety at work acts, particularly in respect of the lower noise levels – 83db at 2 metres.

Method of Operation

All material is recovered through the gulper suction head and is drawn via the rubber lined hose into the cyclone. The vortex created in the cyclone separates the very fine dusts from the heavier particles which fall, under gravity, into the hopper.

A dump valve on the hopper is operated by an adjustable timer which can be set to suit the rate of recovery.

All material dust travels along the flexible intermediate hose to the filter box. Inside the box the 18 filter socks collect the dust as the airstream passes through.

Clean air is discharged through the JetPump each time the machine stops by reverse pulsing into the dust compartment situated at the bottom of the filter box.

Technical Specification

Power Source : Compressed air – 250CFM @ 7 bar (100PSI).
Suction Hose : 2½" I.D.
Recovery Rate : 3 to 5 tonne per hour of expendable media dependent on hose lengths.
Weight : 600 kgs.
Filtration : Cyclonic primary filter with a 18 sock PNF dust collection system.