

VACUUM RECOVERY SYSTEM

ABVR Series



AIRBLAST



AIRBLAST ABVR series vacuum recovery system is designed to recover spent dry recyclable abrasives from a blasting area into a silo for subsequent return to the blast cleaning equipment or, in the case of expendable abrasives, for disposal into a waste hopper.

After depositing the abrasive into the silo, the vacuum flow containing air and dust continues on to the suction unit, where the dust particles in this stream are removed by high performance filter cartridges prior to exhausting air to atmosphere.

The VRS is of strong construction with sturdy maintenance access doors and contains the filter section fitted with safety relief valve and automatically sequenced reverse pulse-jet filter cleaning system, motor compartment housing an electric drive motor and a vacuum pump complete with exhaust silencer. This unit is also fitted with an electric control panel.

The VRS is designed to meet present and proposed environmental. Dust emission (max. 5 mg pr. m³ air).

A feature of AIRBLAST ABVR series vacuum recovery system is the capability to vacuum clean any residual dust and abrasive particles from the blast cleaned surfaces to meet the high specifications laid down in National and International Standards of surface preparation.

ABVR SPECIFICATIONS				
Model	ABVR-90	ABVR-75	ABVR-45	ABVR-30
Power supply	3-Phase 415/ 50Hz			
Process air volume	3600 CMH	3120 CMH	2640 CMH	1900 CMH
Vacuum pressure	500 mbar			
Drive	V-belt driven			
Rotational speed	1250 rpm			
Electric motor	90 kW IP55 class F	75kw IP55 class F	45 kW IP55 class F	30 kW IP55 class F
Dust filtration	Cyclone and cartridge dust collector continuous pulse-jet valve			
Over vacuum protection	Vacuum relief valve			
Protection	Wrong phase, overload, dust Level			
Filter cleaning	Periodic reverse air jet			
Filter efficiency	0.05%			
Air cleaning	Oil / water separator @ 6 to 10 bar			
Noise level	85 dB @ 5 m radius scale A			
Vacuum hose size	4" / 5" / 6"	4" / 5"	4"	3"
Machine structure	Open-skit mounted			
Start-stop method	Star-Delta			
Control panel	IP54 overload protection			
Display gauges	Running amperes, vacuum			
Recommended silo	8 tons	8 tons	5 tons	4 tons
Weight	approx 5000 kgs.	approx 4500 kgs.	approx 3000 kgs.	approx 2650 kgs.
Dimensions	3.45 x 2.25 x 2.5 mtr.	2.67 x 2.2 x 2.12 mtr.	2.4 x 1.9 x 1.9 mtr.	2.0 x 1.6 x 1.9 mtr.
Recovery rate	Up to 10 tons/hr, 40m vertical (suction), 15m horizontal (machine to silo)	Up to 8 tons/hr, 30m vertical (suction), 15m horizontal (machine to silo)	Up to 5 tons/hr, 25m vertical (suction), 15m horizontal (machine to silo)	Up to 3.5 tons/hr, 20m vertical (suction), 15m horizontal (machine to silo)