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Commercial Information
The Art of Powerful Cleaning...

ASIA AIRBLAST

Title: VRS

VACUUM RECOVERY SYSTEM



AIRBLAST VRS 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.

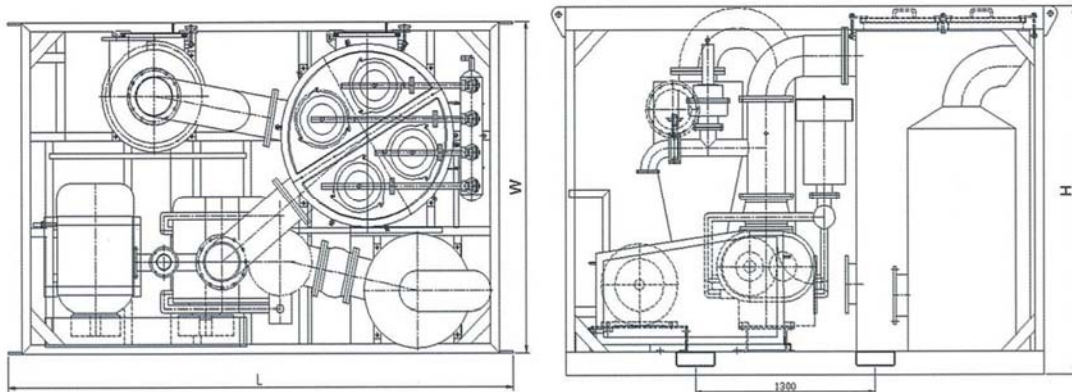
After depositing the abrasive into the silo, the vacuum flow containing air and dust continues on to the suction unit, where the dust particles in this stream are removed by high performance filter cartridges prior to exhausting air to atmosphere.

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 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 VRS series vacuum recovery system is the capacity 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.



SPECIFICATION OF EACH PART

- **Type Dust Collector**

Dust collector discharge a clean air as following order.

SILO → CARTRIDGE FILTER → ROOTS BLOWER → EXHAUST SILENCER →
DISCHARGE A CLEAN AIR.

- **Roots Blowers**

Make up a vacuum with rotation of blower

- **Exhaust Silencer**

Reducer of discharge noise air from roots blower.

- **Accessory Parts**

- a. Vacuum Breaker: prevent damage to the unit if a suction hose is choked or vacuum pressure is exceeded.
- b. Vacuum Gauge: indicate vacuum pressure.
- c. Manometer: indicate the time of exchange & filtering bag pulsing. Check the pressure variance when the filtering bag is choked.
- d. Unloading Valve (Optional): over working loading of the motor when we start, protect reverse rotation when in operation.
- e. Timer Unit: plus jet cleaning interval.

Vacuum Recovery System VRS Series

Model	ABVR-90	ABVR-45	ABVR-30	
Power Supply	3-Phase 415/ 50Hz			
Process Air Volume	3600 CMH	2640 CMH	1900 CMH	
Vacuum Pressure	-450mmHg	-430mmHg	-380mmHg	
Rotation Speed	1318 rpm	1033 rpm	1239 rpm	
Electric Motor	90 kW 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%			
Noise Level	85 dB @ 5 m radius scale A			
Start-stop Method	Star-Delta			
Control Panel	IP55 overload protection			
Display Gauges	Running Amperes, Vacuum			
Machine Structure	Open Skid-mounted with roof			
Air Consumption	750 l/min at max 10 bar	400 l/min at max 10 bar	250 l/min at max 10 bar	
Air Cleaning	Oil / water separator @ 6 to 10 bar			
Optional Accessories	Machine to Silo Hose -WGP	6" * 10m	5" * 10m	4" * 10m
	Suction Hose -WGP (Silo to manifold)	5" * 20m	4" * 20m	3" * 20m
	Vacuum Hose -GL	2 ½" * 20m * 4	2 ½" * 20m * 2	2 * 20m * 2
	Air Manifold	4 outlets	2 outlets	2 outlets
Recommended Silo	7 tons	5 tons	3.5 tons	
Weight	Approx 4.2 tons	Approx 3.3 tons	Approx 2.6 tons	
Machine Dimension () refers without eyebolt measurement	L3.65*W2.25*H2.5m (L3.45*W2.25*H2.5m)	L2.8*W2.12*H2.0m (L2.6*W2.12*H2.0m)	L2.2*W1.8*H1.97m (L2.2*W1.8*H1.87m)	
Silo Dimension (standard)	L2.08*W1.86*H2.72m	L1.9*W1.68*H2.7m	L1.72*W1.45*H2.42m	
Silo Weight	Approx 1.6 tons	Approx 1.3 tons	Approx 1 tons	
Recovery Rate	Up to 10 tons/hr, 30m vertical (suction), 15m horizontal (machine to silo)	Up to 5 tons/hr, 30m vertical (suction), 15m horizontal (machine to silo)	Up to 3.5 tons/hr, 30 m vertical (suction), 15m horizontal (machine to silo)	

Note: We have the policy to improve our equipment continuously & shall reserve the rights to change the dimensions and specs without prior notice.