

Detritus Defender™



DETRITUS
D E F E N D E R

Introducing the Detritus Defender™ by Black Diamond - the patented, proactive, high-pressure, surface filtration system which elevates mud quality to new levels of purity.

Integrated into the ground mud-line plumbing between the mud pumps and substructure, the in-line filter not only guarantees a mud system of unrivaled purity but also ensures a risk-free and easily managed process. By employing surface filters, operators enjoy complete command over the filtration process, eliminating the operational and safety risks associated with drill pipe filters.

With a legacy of excellence, Black Diamond is dedicated to pioneering the most efficient circulation and mud systems in the industry.

Features and Benefits

Effortless Filter Replacement: Completed in <5 mins, seamlessly integrates into standard rig operations with no impact on rig time.

Realtime Monitoring: Dedicated pressure sensor ensures accurate filter fill rate reporting for efficient cleaning and replacement scheduling.

Optimized Performance: Detritus Defender™ mitigates the impacts of drill pipe filter misapplication including:

- Incorrect placement
- Leakage
- False make-ups
- Omission
- Connection damage

Improved Safety: Eliminate risks associated with rig floor and fingerboard handling of drill pipe screens. Reduced risk of equipment malfunctions or failures, enhancing overall safety on the drilling site.

High Pressure Filtration: Superior particle removal capabilities even at high flow rates.

Prolonged Equipment Lifespan: Removing drill pipe filters diminishes wear on connections, prolonging the lifespan of equipment.

Optimal Filter Performance: Screen design maximizes filtration performance while minimizing pressure drop.

Surface Asset Protection: Downstream surface connections are screened from debris that would cause damage when employing traditional drill pipe filters.

Effortless Integration: Precision-mounted on a dedicated skid allows for straightforward installation with simplified rig handling.

Solids Control Performance Tracking: Basic filtrate analysis allows valuable insight into effectiveness of rig solids control.

Demonstrated Reliability: Over 8 million hours of successful circulation, underscoring the Detritus Defender™'s consistent and dependable functionality in real-world drilling operations.



Specifications		
Length (in)	67	
Width (in)	37	
Weight (lb)	2,160	
Filter Length (in)	25	
Max. Flow Rate (gpm)	1,400	
Pressure Rating (psi)	7,500	
Filtration Capacity	(bbl/min)	33
	(bbl/hr)	2000
Pressure Drop (psi) ¹	36	

¹) Flow rate 1,400 gpm, fresh water (8.33 lb/gal)



LOCATIONS



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MIDDLE EAST

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