

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.

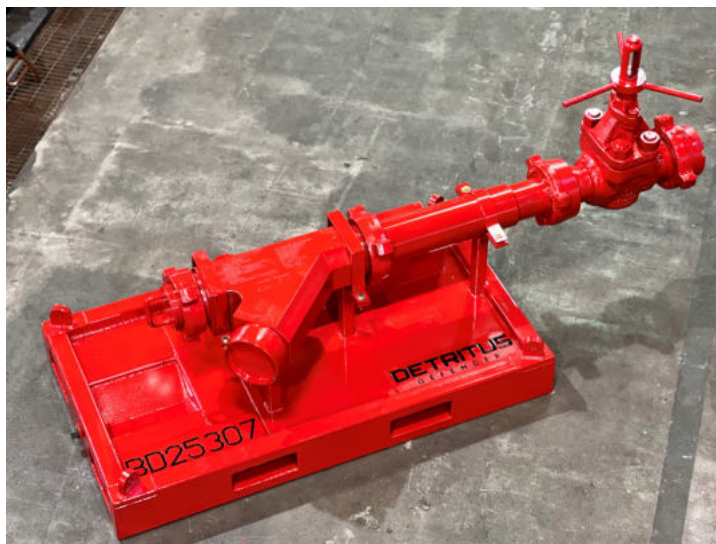
Optimal Filter Performance: Screen design maximizes filtration performance while minimizing pressure drop.

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



USA

BLACK DIAMOND CORPORATE

15425 N. Freeway, Suite 350
Houston, Texas 77090
1.281.443.0062

BLACK DIAMOND BROUSSARD

1173 Old Spanish Trail, Hwy 182 N
Broussard, LA 70518
1.337.359.1994

BLACK DIAMOND CONROE

4205 FM 1485
Conroe, TX 77306
1.936.441.1480

BLACK DIAMOND MWD

2418 N Frazier Street #100
Conroe, Texas 77303

BLACK DIAMOND WEST TEXAS

3510 N. County Rd 1148
Midland, TX 79705
1.432.689.0076

CANADA

BLACK DIAMOND EDMONTON

Wenzel Downhole Tools
3115 – 93 Street NW
Edmonton, AB T6N 1L7
1.780.440.4220

GUYANA

BLACK DIAMOND GEORGETOWN

Plantation "A"
Houston District
East Bank Demerara
Georgetown, Guyana

MEXICO

BLACK DIAMOND VILLAHERMOSA

Avenida San Lucas Manzana 2 Bodega 3 y 4
Parque Logistico Industrial Tabasco
Rancheria Anacleto Canabal 4ta. Seccion.
Centrol, Tabasco C.P. 86287
+52 993 688 8579

BLACK DIAMOND TAMPICO

Carretera federal 20 de Noviembre km 18.7
Congregacion Anahuac
Pueblo Viejo, Ver., C.P. 92035
+52 993 688 8579

MIDDLE EAST

BLACK DIAMOND ABU DHABI

Wenzel Downhole Tools
Al Markaz Industrial Area
Waha Land, LT01 B25-32
Abu Dhabi, U.A.E.
+971 2 585 2800