Patented system that EFFICIENTLY REMOVES AIR/VAPOR from your Diesel Fuel that Improves PERFORMANCE!

AirDog II

FUEL PREPORATOR

# The Original Fuel Air Separation System!



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# About Us:

In 1990, Charles Ekstam began research that led to the development of the Fuel Preporator®. On March 15, 1993, the first commercial Fuel Preporator® unit was sold to Mr. Dave Hayden of Herrod, Ohio. Dave was an Owner/Operator with National Carriers.

Over the course of the last eighteen years, the Fuel Preporator® as well as the company, has gone through several iterations. Fuel Preporator® models have been developed for virtually every diesel engine application, including commercial trucking, military, marine, pick-up trucks; even tugboat and locomotive engines up to 14,200 cubic inches.

Fast-forward to present day, and PureFlow Technologies, the exclusive licensee of the Fuel Preporator®, having recently moved their production of all products to Shelbyville, Indiana. The production facility along with order fulfillment has become PureFlow AirDog in conjunction with PureFlow's research and development of new products for the diesel marketplace. PureFlow AirDog is in a 70,000 square foot ISO production environment where the AirDog line is now produced.



PureFlow AirDog 705 Mausoleum Road Shelbyville, IN 46176 Toll Free: 877-421-3187 F: 317-421-3190

## **Contents:**

AirDog II	
AirDog	
Dodge	
Accessories	
Chevy/GMC	
Ford	
Raptor	
Class 8	
Fuel Module Upgrade Kit	



## The Original Fuel Air Separation System!

Patented system that EFFICIENTLY REMOVES AIR/VAPOR from your diesel fuel improving overall engine PERFORMANCE!



# ADVANCING the AirDog® TRADITION with NEW and UNIQUE FEATURES!

- Removes Air/Vapor from Diesel Fuel
- Pure Diesel Fuel reaching Engine
- High Flow rates of Fuel to Engine
- Longer Injector life
- Increased Injection Pump life
- Adjustable Flow Rates
- Increase Fuel Economy
- Optimize Engine Performance
- Increase Torque Output
- Improve Throttle Response

Small & Compact: ONLY 7"L X 10"T X 3.2"W Dual Feed Gerotor Pump: Quiet, Efficient, Long Lasting! Dodge Cummins DF-200 Chevy DuraMax DF-200 DuraMax: Special Fittings for Quick and Easy Installations

Ford PowerStroke AirDog®II High Pressure Systems Replaces OE Pressure Pumps! DF-130/75 Adjustable from 45 to 75psi DF-90/55 (55psi) DF-130/55 (55psi)



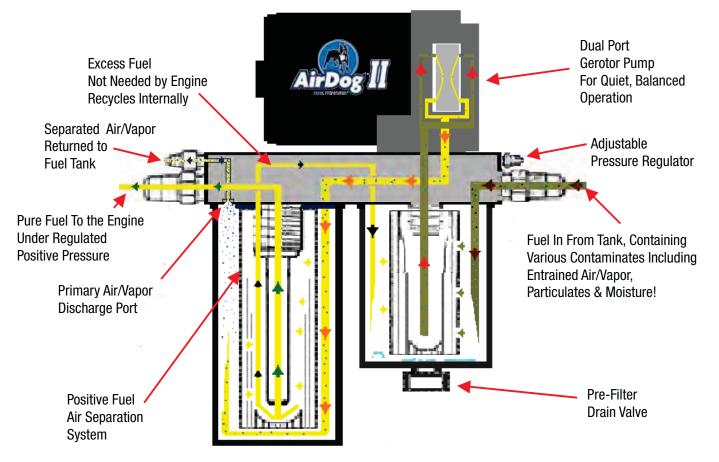
AirDog® II Adjustable Regulator - NEW Technology! Regulate the pressure and flow of fuel into your Injection Pump and Engine! Mounts to frame - NO Drilling required!

FUEL PREPORATOR

AirDog 11



## The Fuel Preporator<sup>®</sup> AirDogII<sup>®</sup> Demand Flow System Fuel Air Separation System! How the Demand Flow System Operates!



The AirDog®II, designed to operate at flows and pressures beyond the maximum requirements of the engine, receives fuel under vacuum from the fuel tank containing ( ) entrained air/vapor, particulate contaminates and unknown quantities of water. The fuel passes through the water separator which removes the large particulate contaminates that could damage or jam the gerotor fuel pump. The fuel, with only entrained air/vapor and tiny particulate contaminates remaining ( ), enters the fuel pump.

The fuel, under positive pressure flow ( \_\_\_\_\_\_\_\_), enters the fuel filter. As the fuel passes through the filter media and the remaining particulate contaminates are caught and contained, the entrained air/vapor is also separated. Through the POSITIVE FUEL AIR SEPARATION FEATURES of the PATENTED FUEL PREPORATOR® the separated air/vapor ( \_\_\_\_\_\_\_) is discharged from the filter and back to the fuel tank through the Primary Air/Vapor Discharge Port.

The fuel passing through the filter media, free of contaminates & power robbing air/vapor and at pressures and flows always able to meet the needs of the engine, exits the fuel filter through two passageways. First, the fuel for the engine ( $\rightarrow$ ), passes into the fuel pickup tube and on to the engine. Then, the excess fuel ( $\rightarrow$ ) not needed by the engine recycles internally through the pressure regulator back to the water separator.



## The Original Fuel Air Separation System!

Patented system that EFFICIENTLY REMOVES AIR/VAPOR from your diesel fuel improving overall engine PERFORMANCE!

Model FP 100/150

EL PREPORATOR

- Removes Air/Vapor from Diesel Fuel
- Pure Diesel Fuel reaching Engine
- High Flow rates of Fuel to Engine
- Longer Injector life
- Increased Injection Pump life
- Increase Fuel Economy
- Optimize Engine Performance
- Increase Torque Output
- Improve Throttle Response

Small & Compact: ONLY 7"L X 10"T X 3.2"W Dual Feed Gerotor Pump: Quiet, Efficient, Long Lasting!

SINGLE PIECE PUMP BODY: Replaces the old 3 piece pump design reducing the number of parts, unit size, and weight. This results in a sleek, low profile pump assembly and eliminates the need for leaky, messy gaskets!

"VACU" SEAL TECHNOLOGY: All PureFlow  $\ensuremath{\mathbb{R}}$  pump system shaft seals operate under vacuum instead of pressure for extra long seal life.

Mounts to frame - NO Drilling required!



www.PureFlowAirDog.com 1-877-421-3187

AirDog

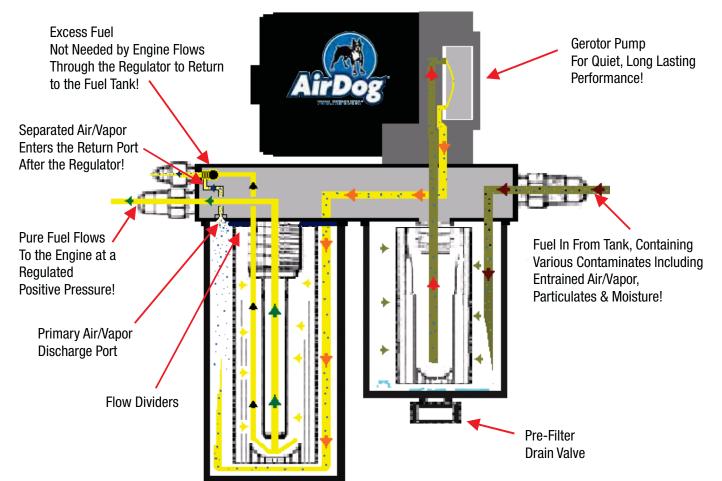
**FF100** 

FUEL PREPORATOR



Return Line

#### **Fuel Preporator® Technology!** The Original Fuel Air Separation System! First Commercial System for Class 8 Trucks Sold March 15, 1993!



The AirDog® Fuel Preporator®, with the capability to provide fuel at flows and pressures beyond the maximum requirements of the engine, receives fuel under vacuum from the fuel tank containing entrained air/vapor, particulate contaminates and unknown quantities of moisture (

The fuel, now under positive pressure flow ( < ), enters the filter. As the fuel passes through the filter media and the remaining particulate contaminates are caught and contained, the entrained air/vapor is also separated. Through the POSITIVE FUEL AIR SEPARATION FEATURES of the PATENTED FUEL PREPORATOR® the separated air/vapor ( ) is discharged from the filter through the Primary Air/Vapor Discharge Port and into the return to tank passage after the regulator. The fuel passing through the filter media {free of contaminates & power robbing air/vapor and at pressures and flows to meet the needs of the engine} exits the fuel filter through two passageways. The fuel for the engine ( ), passes into the fuel pickup tube and out to the engine.





## AirDog® & AirDog®II for Dodge Cummins







Vendor PN	PRODUCT DESCRIPTION	Year / Make / Model
	Dodge Cummins 1989 - 1993	
	Original AirDog® Preset @15-17 PSI	
A1SPBD336	Original AirDog 100 Preset	1989-1993 Dodge Diesel
A1SPBD337	Original AirDog 150 Preset	1989-1993 Dodge Diesel
	AirDog II® Demand Flow Preset @ 15-17 PSI	
2SPBD338	AirDog II DF-100 w/Built-In Adj Reg	1989-1993 Dodge Cummins
2SABD340	AirDog II DF-165 w/Built-In Adj Reg*	1989-1993 Dodge Cummins
	Raptor™ Fuel Pump Preset @ 15-17 PSI	
1SBD348	Raptor 100 Hi-Perf Fuel Pump w/Built-In Adj Reg	1989-1993 Dodge Cummins
R1SBD349	Raptor 150 Hi-Perf Fuel Pump w/Built-In Adj Reg	1989-1993 Dodge Cummins
	Dodge Cummins 1994 - 1998	
	Original AirDog® Preset @ 25-30 PSI	
1SPBD000	Original AirDog 100 Preset	1994-1998 Dodge Cummins
1SPBD003	Original AirDog 150 Preset	1994-1998 Dodge Cummins
	AirDog II® Demand Flow Preset @ 25-30 PSI	
2SPBD252	AirDog II DF-100 w/Built-In Adj Reg	1994-1998 Dodge Cummins
2SABD024	AirDog II DF-165 w/Built-In Adj Reg*	1994-1998 Dodge Cummins
2SABD027	AirDog II DF-200 w/Built-In Adj Reg*	1994-1998 Dodge Cummins
	Raptor™ Fuel Pump Preset @ 25-30 PSI	
R1SBD048	Raptor 100 Hi-Perf Fuel Pump w/Built-In Adj Reg	1994-1998 Dodge Cummins
1SBD051	Raptor 150 Hi-Perf Fuel Pump w/Built-In Adj Reg	1994-1998 Dodge Cummins
	Dodge Cummins 1998.5 - 2004	
	Original AirDog® Preset @ 15-17 PSI	
A1SPBD001	Original AirDog 100 Preset	1998.5-2004 Dodge Cummins w/o In-Tank Fuel Pump
AISPBD353	Original AirDog 100 Preset	1998.5-2004 Dodge Cummins with In-Tank Fuel Pump
1SPBD004	Original AirDog 150 Preset	1998.5-2004 Dodge Cummins
	AirDog II® Demand Flow Preset @ 15-17 PSI	
2SPBD253	AirDog II DF-100 w/Built-In Adj Reg	1998.5-2004 Dodge Cummins w/o In-Tank Fuel Pump
A2SPBD354	AirDog II DF-100 w/Built-In Adj Reg *	1998.5-2004 Dodge Cummins with In-Tank Fuel Pump
2SABD025	AirDog II DF-165 w/Built-In Adj Reg*	1998.5-2004 Dodge Cummins
A2SABD028	AirDog II DF-200 w/Built-In Adj Reg*	1998.5-2004 Dodge Cummins



Vendor PN	PRODUCT DESCRIPTION	Year / Make / Model
	Raptor™ Fuel Pump Preset @ 15-17 PSI	
R1SBD049	Raptor 100 Hi-Perf Fuel Pump w/Built-In Adj Reg	1998.5-2002 Dodge Cummins w/o In-Tank Fuel Pump
R1SBD355	Raptor 100 Hi-Perf Fuel Pump w/Built-In Adj Reg	1998.5-2002 Dodge Cummins with In-Tank Fuel Pump
R1SBD052	Raptor 150 Hi-Perf Fuel Pump w/Built-In Adj Reg	1998.5-2002 Dodge Cummins
R1SBD324	Raptor 100 Hi-Perf Fuel Pump w/Built-In Adj Reg	2003-2004.5 Dodge Cummins w/o In-Tank Fuel Pump
R1SBD356	Raptor 100 Hi-Perf Fuel Pump w/Built-In Adj Reg	2003-2004.5 Dodge Cummins with In-Tank Fuel Pump
R1SBD325	Raptor 150 Hi-Perf Fuel Pump w/Built-In Adj Reg	2003-2004.5 Dodge Cummins
	Dodge Cummins 2005 - 2009	
	Original AirDog® Preset @ 15-17 PSI	
A1SPBD002	Original AirDog 100 Preset	2005-2009 Dodge Cummins
A1SPBD005	Original AirDog 150 Preset	2005-2009 Dodge Cummins
	AirDog® II Demand Flow Preset @ 15-17 PSI	
A2SPBD254	AirDog II DF-100 w/Built-In Adj Reg *	2005-2009 Dodge Cummins
A2SABD026	AirDog II DF-165 w/Built-In Adj Reg *	2005-2009 Dodge Cummins
A2SABD029	AirDog II DF-200 w/Built-In Adj Reg *	2005-2009 Dodge Cummins
	Raptor™ Fuel Pump Preset @ 15-17 PSI	
R1SBD050	Raptor 100 Hi-Perf Fuel Pump w/Built-In Adj Reg	2005-2009 Dodge Cummins
R1SBD053	Raptor 150 Hi-Perf Fuel Pump w/Built-In Adj Reg	2005-2009 Dodge Cummins

#### Dodge Cummins 1994 - 1998 - New Item!

\*Includes Fuel Module Up-Grade Kit

#### Raptor<sup>™</sup> Fuel Pump

R1SPBF359 Raptor RP-150-HP High Pressure Fuel Pump w/Built in Adj. Reg.,70psi max 1994-1998 Dodge Cummins

AirDog®, AirDogII®, & Fuel PreporatorII®			
ACCESSORIES			
Vendor PN	PRODUCT DESCRIPTION	APPLICATION	
FF-200	Fuel Preporator II Fuel Filter - 10 Micron	Class 8 truck units	
WS-200	Fuel Preporator II Pre Filter	Class 8 truck units	
FF100-2	AirDog® Fuel Filter 2 micron	All AirDog & AirDog II units	
FF100-10	AirDog® Fuel Filter 10 micron	All AirDog & AirDog II units	
WS100	AirDog® Pre Filter	All AirDog & AirDog II units	
901-01-0351-V	Suction Tube Kit	All AirDog & AirDog II units	
901-04-0003-3	Indicator Light Kit	All AirDog & AirDog II units	
901-01-0501	Dodge Fuel Module Up-Grade Kit For	Trucks with Fuel Tank Module	
	98.5-04 in tank fuel pump retro fit & 05-09 ( One in)		





### AirDog® & AirDog®II for Chevy Diesel & DuraMax Feature Complete Installation Kits and More!







Vendor PN	PRODUCT DESCRIPTION	Year / Make / Model
	Chevy Diesel 1992 - 2000	
	Original Air Dog® Preset @ 8 PSI	
A1SPBC084	Original AirDog 100, Preset	1992-2000 Chevy Diesel
A1SPBC087	Original AirDog 150, Preset	1992-2000 Chevy Diesel
	AirDog® II Demand Flow Preset @ 8 PSI	
A2SPBC258	AirDog II DF-100 w/Built-In Adj Reg	1992-2000 Chevy Diesel
A2SABC108	AirDog II DF-165 w/Built-In Adj Reg	1992-2000 Chevy Diesel
	Raptor™ Fuel Pump Preset @ 8 PSI	
R1SBC132	Raptor 100 Hi-Perf Fuel Pump w/Built-In Adj Reg	1992-2000 Chevy Diesel
R1SBC135	Raptor 150 Hi-Perf Fuel Pump w/Built-In Adj Reg	1992-2000 Chevy Diesel
	Duramax 2001 - 2009	
	Original AirDog® Preset @ 10 PSI	
A1SPBC085	Original AirDog 100, Preset	2001-2009 Chevy Duramax
A1SPBC088	Original AirDog 150, Preset	2001-2009 Chevy Duramax
	AirDog® II Demand Flow Preset @ 10 PSI	
A2SPBC259	AirDog II DF-100 w/Built-In Adj Reg	2001-2009 Chevy Duramax
A2SABC109	AirDog II DF-165 w/Built-In Adj Reg	2001-2009 Chevy Duramax
A2SABC112	AirDog II DF-200 w/Built-In Adj Reg	2001-2009 Chevy Duramax
	Raptor™ Fuel Pump Preset @ 10 PSI	
R1SBC133	Raptor 100 Hi-Perf Fuel Pump w/Built-In Adj Reg	2001-2009 Chevy Duramax
R1SBC136	Raptor 150 Hi-Perf Fuel Pump w/Built-In Adj Reg	2001-2009 Chevy Duramax







FUEL PREPORATOR

### AirDog® & AirDog®II for Ford PowerStroke Feature Complete Installation Kits and More!





1-877-421-3187

www.PureFlowAirDog.com

Vendor PN	PRODUCT DESCRIPTION	Year / Make / Model	
	Ford PowerStroke 1994.5-2003 7.3L		
	Original AirDog® (Supplies Fuel to the High-Pressure Pump)		
A1SPBF168	Original AirDog 100 Preset	1994.5-2003 7.3L Ford	
A1SPBF171	Original AirDog 150 Preset	1994.5-2003 7.3L Ford	
	AirDog® II Demand Flow (Replaces OE Lift Pump)		
A2SABF192	AirDog II DF- 165 w/ Built-in Adj Reg	1994.5-2003 7.3L Ford	
1.	Raptor <sup>™</sup> Fuel Pump (Supplies Fuel to the High-Pressure Pump)		
R1SBF216	Raptor 100 Hi-Perf Fuel Pump w/Built-In Adj Reg	1994-2003 7.3L Ford	
R1SBF219	Raptor 150 Hi-Perf Fuel Pump w/Built-In Adj Reg	1994-2003 7.3L Ford	
	Raptor <sup>™</sup> Fuel Pump (Replaces High Pressure Pump)	1	
R1SPBF357	Raptor RP-150-HP High Pressure Fuel Pump w/Built in Adjustable Regulator 75 psi max	1994-2003 7.3L Ford	
	Ford PowerStroke 2003 - 2007 6.0L		
-	Original AirDog® (Supplies Fuel to the High-Pressure Pump)		
A1SPBF169	Original AirDog 100 Preset	2003-2007 6.0L Ford	
A1SPBF172	Original AirDog 150 Preset	2003-2007 6.0L Ford	
	AirDog® II Demand Flow (Replaces OE Lift Pump)		
A2SABF193	AirDog II DF-165 w/Built-In Adj Reg	2003-2007 6.0L Ford	
	Raptor <sup>™</sup> Fuel Pump (Supplies Fuel to the High-Pressure Pump)		
R1SBF217	Raptor 100 Hi-Perf Fuel Pump w/Built-In Adj Reg	2003-2007 6.0L Ford	
R1SBF220	Raptor 150 Hi-Perf Fuel Pump w/Built-In Adj Reg	2003-2007 6.0L Ford	
1	Raptor <sup>™</sup> Fuel Pump (Replaces High Pressure Pump)		
R1SPBF358	Raptor RP-150-HP High Pressure Fuel Pump w/Built in Adjustable Regulator,75psi max	2003-2007 6.0L Ford	
196 (s)	Ford PowerStroke 2008 - 2009 6.4L	1	
· · · · · · · · · · · · · · · · · · ·	Original AirDog® (Supplies Fuel to the High-Pressure Pump)		
A1SPBF170	Original AirDog 100 Preset	2008-2009 6.4L Ford	
A1SPBF173	Original AirDog 150 Preset	2008-2009 6.4L Ford	
	AirDog® II Demand Flow (Replaces OE Lift Pump)	1	
A2SPBF266	AirDog II DF-100 w/ Preset Reg	2008-2009 6.4L Ford	
A2SABF194	AirDog II DF-165 w/Built-In Adj Reg	2008-2009 6.4L Ford	
	Raptor <sup>™</sup> Fuel Pump (Supplies Fuel to the High-Pressure Pump)		
R1SBF218	Raptor 100 Hi-Perf Fuel Pump w/Built-In Adj Reg	2008-2009 6.4L Ford	
R1SBF221	Raptor 150 Hi-Perf Fuel Pump w/Built-In Adj Reg	2008-2009 6.4L Ford	





Performance Replacement Lift Pump for Diesel Trucks and Equipment!

Made for multiple flow rates for constant fuel supply to fuel injector pump!

#### HIGH END Gerotor Fuel Pump Featuring:

- A Built in ADJUSTABLE REGULATOR; No Return Line Needed.
- Single Piece Pump Body reduces number of parts, size and weight, NO leaky, messy gaskets!
- Flow Rates of 100 GPH and 150 GPH.
- 'VacU' Seal Technology puts Shaft Seals Under Vacuum Instead Of Pressure for Long Life.
- Wire Screen in the Inlet Port for Added Protection.
- Includes a complete Installation Kit With: No Drill Mounting Bracket, Wiring Harness, AND 1/2" Big Line Fuel Lines are Standard.
- LIMITED WARRANTY

# Fuel Preporator® II - Class 8

Class 8 Truck Diesel Engines have long been known to loose power and increase fuel consumption as the fuel filter plugs with use, or at higher engine RPM's, or when operating at higher altitudes, and especially when air is present in the fuel supply to the engine. These conditions also cause excessive exhaust emissions!

Fuel Preporator®II Fuel Air Separation System for Class 8 trucks overcomes all of these problems by supplying fuel at the necessary NET POSITIVE PRESSURE HEAD to the engine's transfer pump after filtering. More importantly, the Fuel Preporator®II separates and removes the entrained air from the fuel supply to the engine for: Maximum Fuel Efficiency, Peak Performance, and Reduced Exhaust Emissions!

Fuel Preporator II for Class 8 Trucks		
Vendor PN	PRODUCT DESCRIPTION	
Adjustable Regulator & Filter Change Indicator Light		
FPII-150	Fuel Preporator II Class 8 Unit (150 GPH Flow)	
FPII-250	Fuel Preporator II Class 8 Unit (250 GPH Flow)	

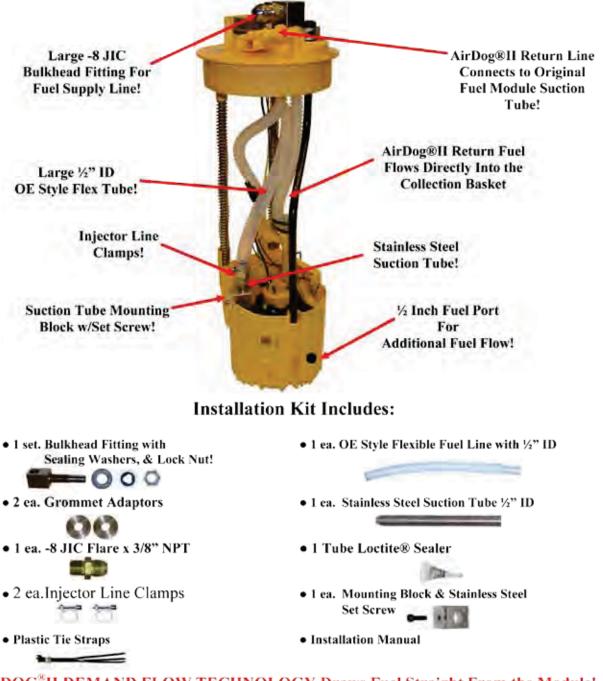


PureFlow " Diesel System

REFLOW DIESEL ST



## Universal Fuel Module Upgrade Kit! Converts your stock fuel module into a high flow system!



AIRDOG<sup>®</sup>II DEMAND FLOW TECHNOLOGY Draws Fuel Straight From the Module! NO MORE Quarter Tank Fuel Problems! NO MORE Drilling Holes in Your Fuel Tank to Install an Aftermarket Draw Straw!



Largest Sled Pull in the Country! 3<sup>rd</sup> Weekend in September Every Year Invitation Only for NADM Champions

OVERFUELED

DIESEL TRUCK

INVITATIONAL

PureFlow AirDog 705 Mausoleum Road Shelbyville, IN 46176 Toll Free: 877-421-3187 F: 317-421-3190

