turbo
PRECLEANER

OEM APPROVED PRODUCTS

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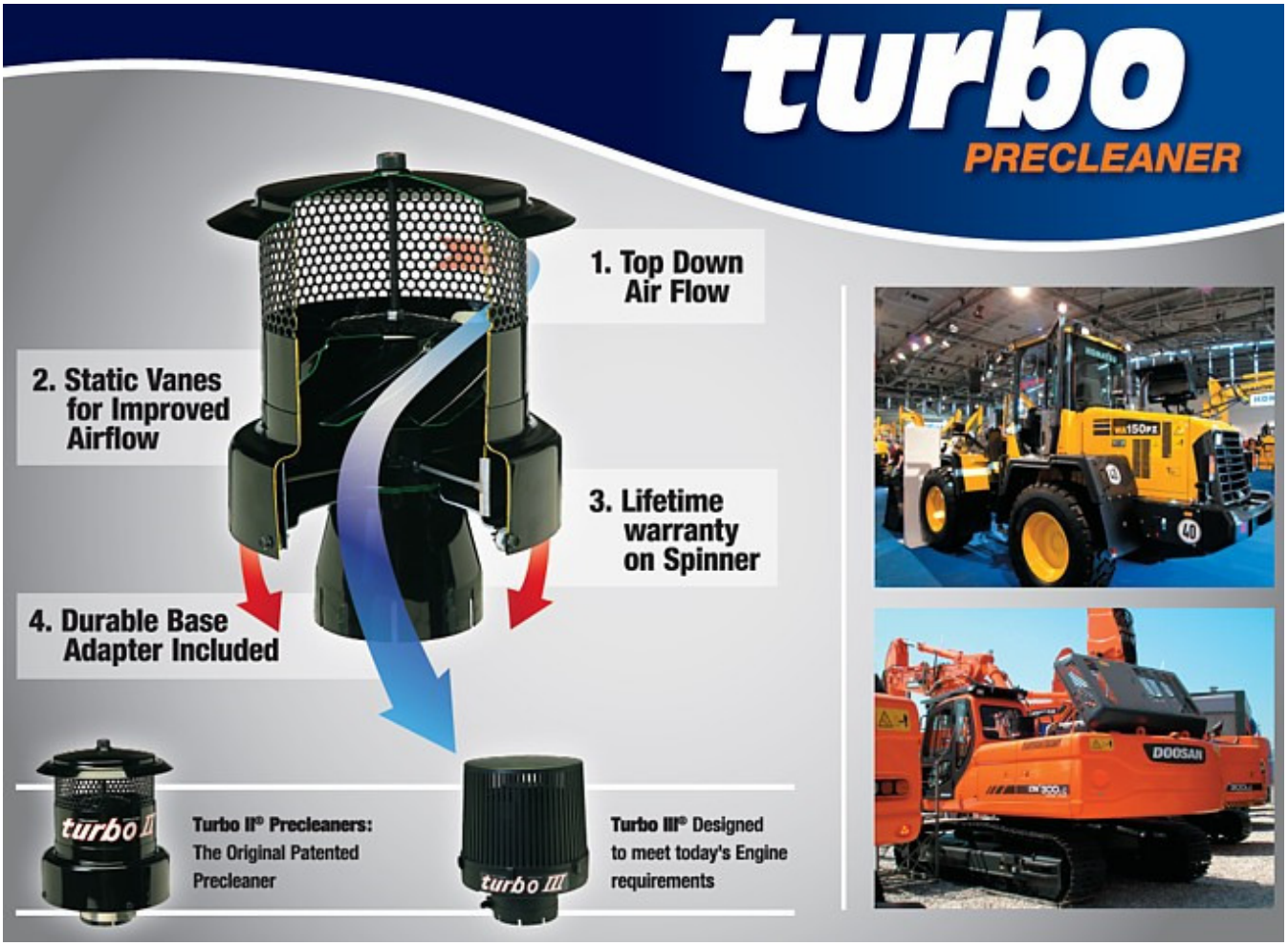

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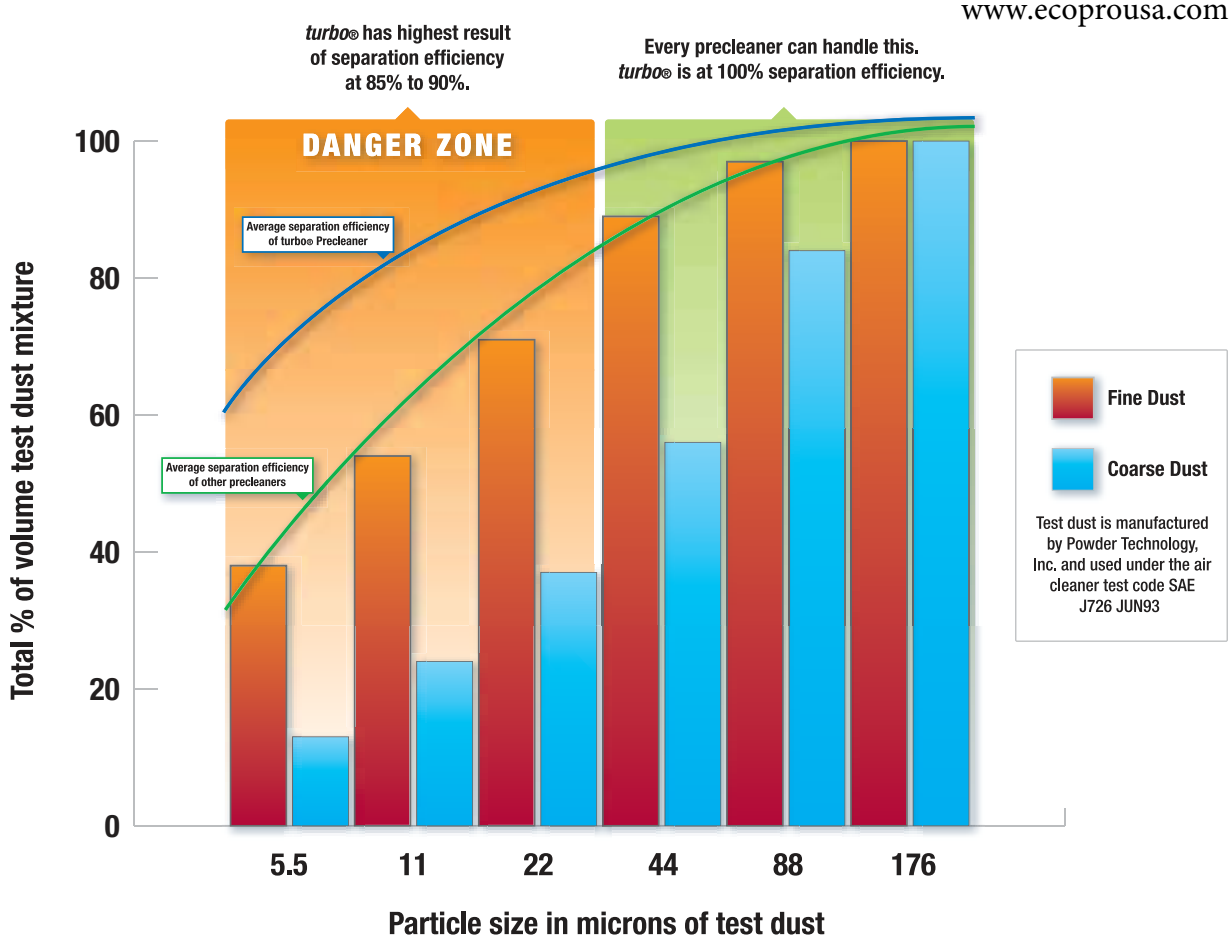

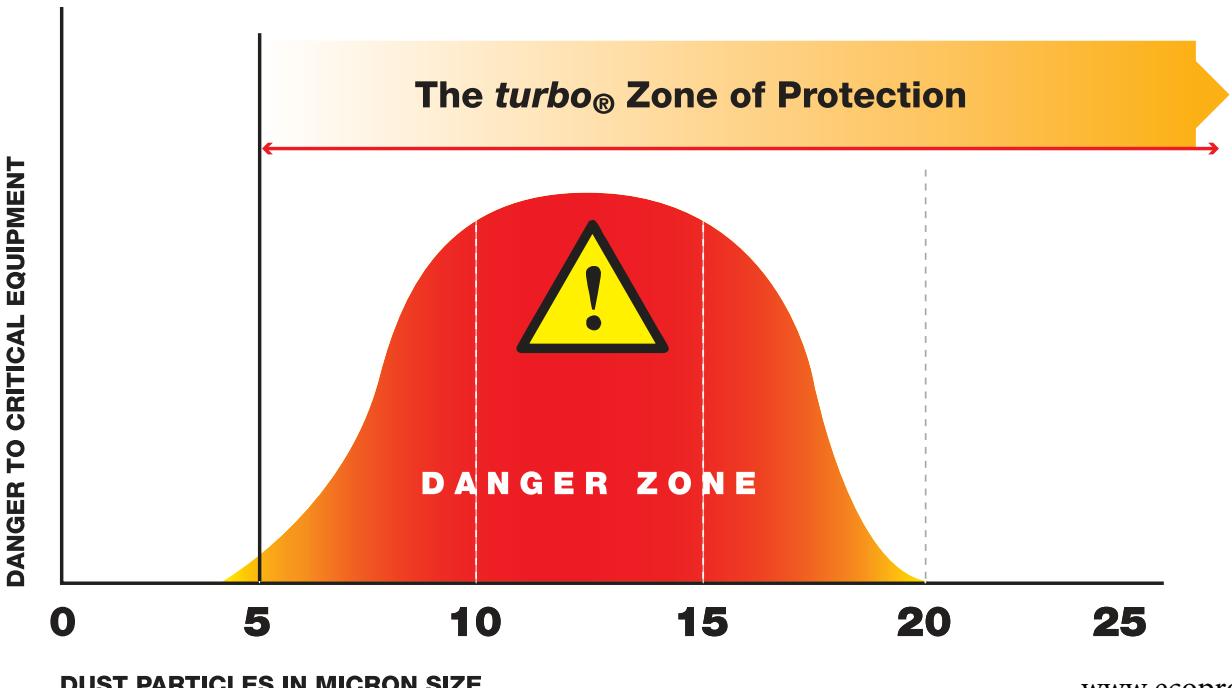

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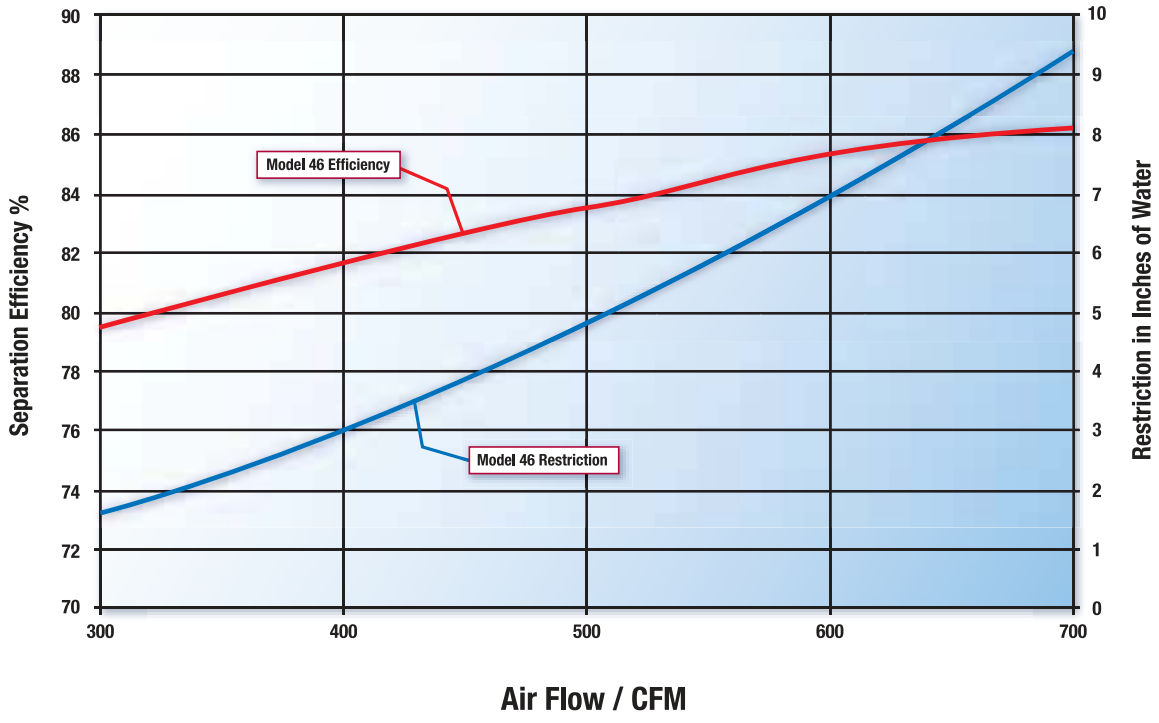
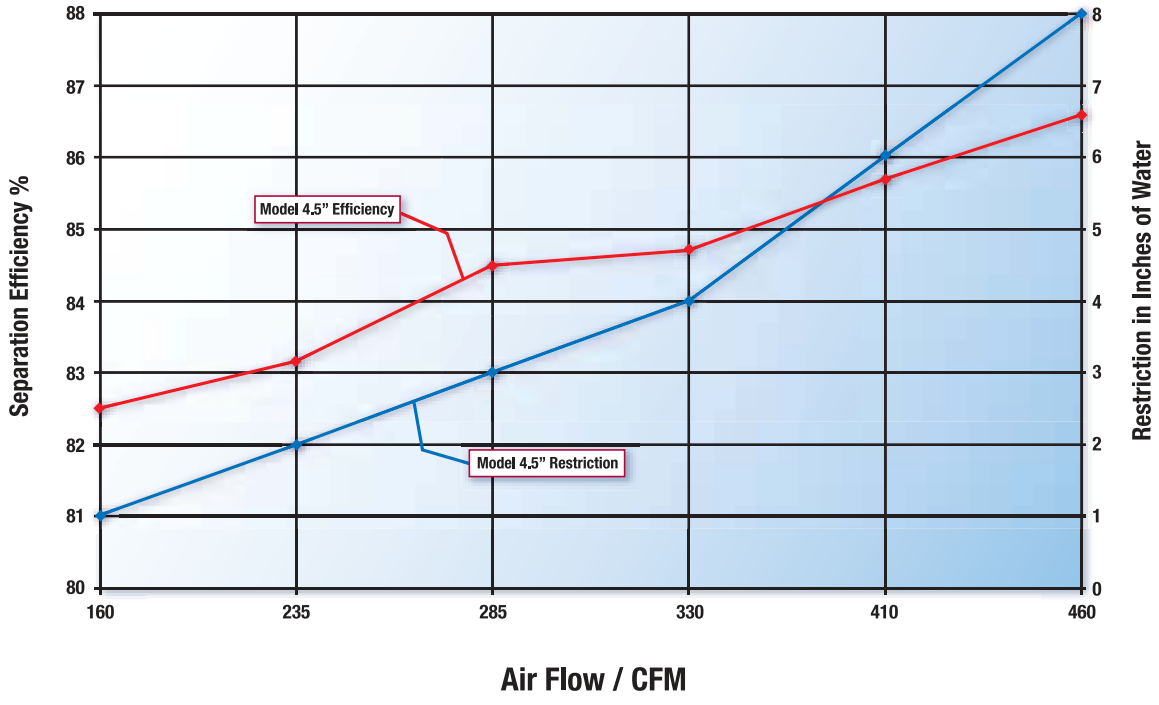
turbo® II Precleaner Model 46



turbo® III Precleaner Model 4.5”



**Results were conducted by an independent Testing Lab & tested in accordance with the SAE J726 JUN93 Air Cleaner Test Code.*

turbo® Precleaners Recommendations for Heavy Equipment

Used in Construction, Mining, Logging, Municipal and Industrial Applications

In order to accurately determine the proper *turbo*® Precleaner to use with any specific make or model of diesel or gasoline engines, you must first calculate the C.F.M. (cubic feet per minute) of air requirement of the engine. In making this calculation, it is important to note that any change in the R.P.M. (revolutions per minute) or the addition of a turbocharger can alter the C.F.M. rating of the engine.

Formula

$$\text{Air (CFM)} = \frac{\text{R.P.M. x C.I.D. x Vol. Eff.}}{3456}$$

To convert Metric Displacements to C.I.D. for use in the formula above, use the following conversion factor:

Displacement in Liters x 61.02 = C.I.D.

Volumetric Efficiency

Diesel Engines – normally aspirated	= .85
turbocharged (intercooled / aftercooled)	= 1.85

C.F.M. – Cubic Feet per Minute | R.P.M. – Revolutions per Minute | C.I.D. - Cubic Inch Displacement | Vol. Eff.- Volumetric Efficiency

turbo® II

	Airflow range		Inlet size base	
Model	CFM	m3/min	Inches	mm
24	100-250	2.8-7.1	3" or 4"	76 or 102
35	250-350	7.1-9.9	4.5"	114
46	300-700	8.5-19.8	4.5", 5", 6", 7"	114, 127, 152, 178
68	700-1100	19.8-31.1	5", 6", 7", 8"	127, 152, 178, 203

All *turbo*® II models are available with a raincap or with a bull-nose • Material: Metal with powdercoat finish

turbo® III

	Airflow range		Inlet size base	
Model	CFM	m3/min	Inches	mm
15	15-85	0.4-2.4	2"	51
50	50-250	1.4-7.1	3" or 4"	76 or 102
200	200-500	5.6-14.2	4.5"	114
500	500-1100	14.2-31.1	6", 7", 8"	152, 178, 203

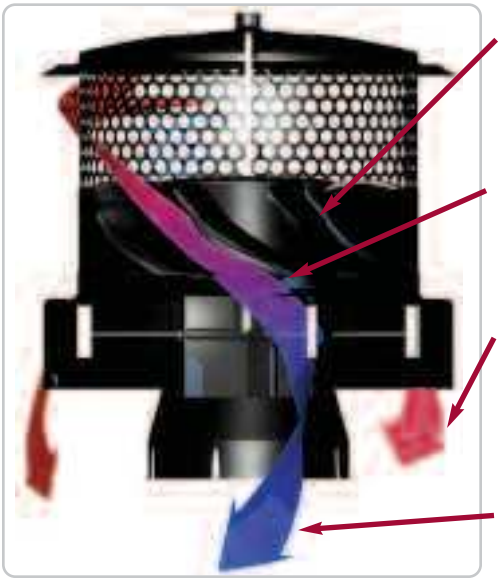
All *turbo*® III are available with raincap • Material: Polymer, 25% glass filled

turbo® PowerRam

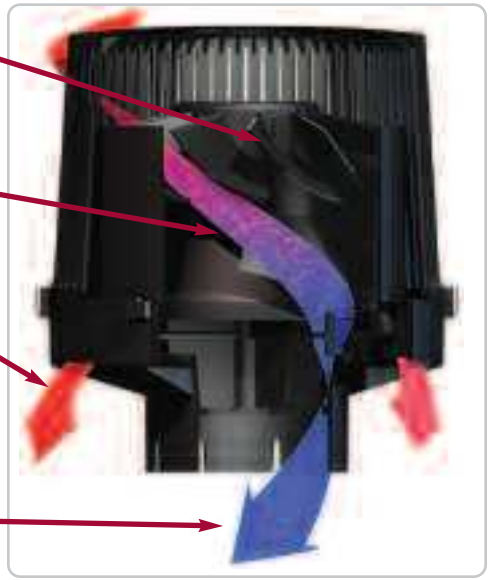
	Airflow range		Inlet size base	
Model	CFM	m3/min	Inches	mm
S	50-500	1.4-14.2	3", 4", 5"	76, 102, 127
L	500-1500	14.2-42.5	6", 7", 8"	152, 178, 203
XL	1000-1800	28.3-51.0	6", 7", 8"	152, 178, 203

Models "S" and "XL" are under development • Polymer, 25% glass filled • Model "L" is metal with powdercoat finish

Model Specifications



1. The *turbo*® Precleaners have specially designed blades that cause the incoming air to spin.
2. As air spins, centrifugal force spins dust, dirt, insects, rain and snow from clean air.
3. Contaminants are blown out special discharge ports by a high-velocity air powered rotor.
4. Only the purified air goes to the air filter.



turbo® II						
	O.D.		Height		Weight	
Model	Inches	mm	Inches	mm	LBS	kg
24	8	203	11	279	5	2.3
35	9.25	235	12.25	311	6.5	2.9
46	12.25	311	15.5	394	11	4.9
68	14.5	368	17.5	444	16	7.3
turbo® III						
	O.D.		Height		Weight	
Model	Inches	mm	Inches	mm	LBS	kg
15	5.27	134	5.13	130	0.5	0.23
50	7.5	190	8	203	1.5	0.68
200	9.34	237	11.6	295	4.4	1.97
500	13.8	350	14.1	358	7.5	3.4
turbo® PowerRam						
	O.D.		Height		Weight	
Model	Inches	mm	Inches	mm	LBS	kg
L	13.5 x 14.5	343 x 359	13.25	321	9	4.1

turbo® PRECLEANER
4540 W. 160th St.
Cleveland, Ohio 44135 USA
Phone: 216.362.0755
Fax: 216.362.0799
www.turboprecleaner.com
sales@turboprecleaner.com

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