## 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 a diesel or gasoline engine, you must first calculate the C.F.M. (cubic feet per minute of air) requirement of that 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

VolumetricEfficiency

Air (CFM)=

R.P.M. x C.I.D. x Vol. Eff. 3456

Diesel Engines – normally aspirated = .85turbocharged = 1.85

(intercooled / aftercooled)

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.

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 Precleaner					
	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 Precleaner					
	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" or 5"	114 or 127	
500	500-1100	14.2-31.1	6", 7", 8"	152, 178, 203	



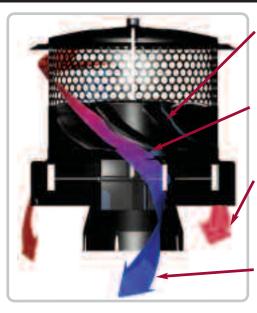
All turbo® III are available with raincap • Material: Polymer, 25% glass filled



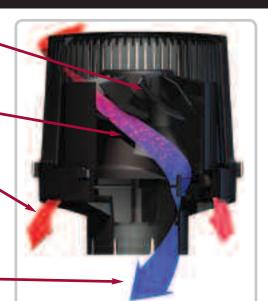
turbo® PowerRam Precleaner					
	Airflow	range	Inlet size base		
Model	CFM	m3/min	Inches	mm	
S	50-500	1.4-14.2	3", 4", 5"	76, 102, 127	
L	500-1500	14.2-42.5	6", 7", 8"	152, 178, 203	
XL	1000-1800	28.3-51.0	6", 7", 8"	152, 178, 203	

Models "S" and "XL" are under development • Polymer, 25% glass filled • Model "L" is metal with powdered coat 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 <sub>®</sub> II Precleaner				
	0.	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 <sub>®</sub> III Precleaner						
	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 <sub>®</sub> PowerRam Precleaner							
	O.D.		Hei	Height		Weight	
Model	Inches	mm	Inches	mm	LBS	kg	
L	13.5 x 14.5	343 x 359	13.25	321	9	4.1	



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