## 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**

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

3456

To convert Metric Displacements to CLD for use in the formula above, use the following conversion factor:

Displacement in Liters x 61.02 = C.LD.

**Volumetric Efficiency** 

Diesel Engines – normally aspirated = .85

turbocharged = 1.85

(intercooled / aftercooled)

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



Air (CFM)=

	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® Il 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

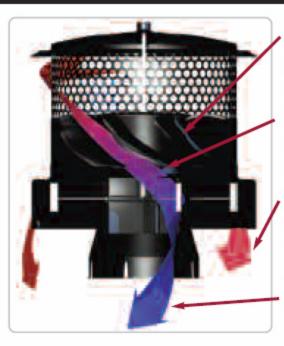


All turbo III are available with raincap • Material: Polymer, 25% glass filled

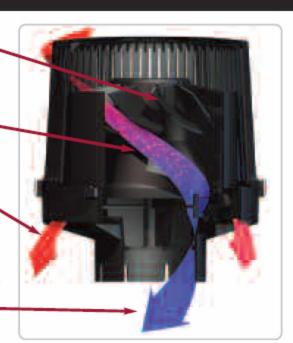


turbo® PowerRam Precleaner					
	Airflow r	ange	Inlet size base		
Model	CFM	m3/min	Inches	mm	
L	500-1500	14.2-42.5	6", 7", 8"	152, 178, 203	

## **Model Specifications**



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



	turbos 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⊚ III Precleaner						
	0.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 Precleaner							
	0.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	



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