



Oil Conditioning Systems NZ Ltd

Clean Oil • Clean Fuel • Clean Air

Visit: www.oilconditioningsystems.co.nz



***Original Aluminum and
Stainless Steel Precleaners***



***Molded, Fiber Filled
Composite Precleaners***



Removes up to 94% of SAE Course Dirt
and up to 99.9% of Larger Airborne Particles
with a ***LIFETIME WARRANTY*** of Dependability

SAVE! UP TO 12 TIMES THE FILTER LIFE

SAVE! UP TO 10% ON FUEL COSTS

SAVE! UP TO 15% ON OIL COSTS

SAVE! UP TO 25% LOWER ENGINE MAINTENANCE

SAVE! UP TO 50% LESS ENGINE DOWNTIME

SAVE! UP TO 25% INCREASED ENGINE LIFE

SAVE! SELF CLEANING (NO DUST BOWL CLEAN OUT)

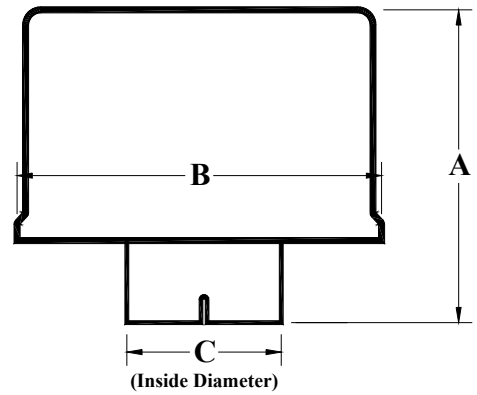
Lifetime Warranty

Original **ENGINEAIRE** Precleaners

Heavy Duty Cast Aluminum Body
Highly Polished Aluminum Hood
Stainless Steel Rotor

The World's Finest Precleaners with a

Lifetime Warranty



Model Number	Air Intake		CFM		M ³ /min		Dimension						Weight	
	Inch	M.M.	Min.	Max.	Min.	Max.	Inches			Millimeters			Lbs.	Kg
							A	B	C	A	B	C		
200	2	50	20	100	0.56	2.8	3.125	4.750	2	80	120	50	2	1.0
255	2.5	63	100	200	2.8	5.6	4.25	6.000	2.5	108	152	63	3	1.4
330	3	76	140	350	4	9.8	4.75	8.250	3	120	210	76	5	2.3
440S	4	100							100					
445	4.5	115	300	600	8.5	16.8	7.125	10.625	4.5	180	270	115	8	3.6
550	5	127							127					
660S	6	152							152					
660	6	152	400	850	11	23.8	7.125	12.250	6	180	311	152	9	4.1
770L	7	178	500	1400	14	39	7.25	14.125	7	184	358	178	11	5.0
880	8	200							200					
990	9	228	900	2000	25.2	56.5	8.125	17.125	9	206	435	228	14	6.4

How To Determine Appropriate Air Precleaner Size

These formulas will enable you to determine the maximum Cubic Feet per Minute or Cubic Meters per Minute of your engine. After calculating the CFM or M³/min., refer to the Enginaire specifications above or following to select the proper model of precleaner.

If any application questions remain, contact your Enginaire dealer or distributor.

Cubic Meters Per Minute

2 Cycle Engines

$$M^3/min = \frac{RPM \times L \times Vol. Eff.}{1000}$$

Volumetric Efficiency

Diesel Engines

Blower Scavenged	=1.40
Turbocharged	=1.90
Turbocharged-innercooled	=2.10

Gasoline Engines

Up to 2500 RPM	=0.85
2500 to 3000 RPM	=0.80
3000 to 4000 RPM	=0.75

M³/min - Cubic meters per minute L - Liters displacement RPM - Revolutions per minute Vol. Eff. - Volumetric efficiency

4 Cycle Engines

$$M^3/min = \frac{RPM \times L \times Vol. Eff.}{2000}$$

Volumetric Efficiency

Diesel Engines

Naturally Aspirated	=0.85
Turbocharged	=1.60
Turbocharged-aftercooled	=1.85

Gasoline Engines

up to 2500 RPM	=0.80
2500 to 3000 RPM	=0.75
3000 to 4000 RPM	=0.70

CFM Formula

2 Cycle Engines

$$CFM = \frac{RPM \times CID \times Vol. Eff.}{1728}$$

Volumetric Efficiency

Diesel Engines

Blower Scavenged	=1.40
Turbocharged	=1.90
Turbocharged-innercooled	=2.10

Gasoline Engines

Up to 2500 RPM	=0.85
2500 to 3000 RPM	=0.80
3000 to 4000 RPM	=0.75

CFM - Cubic Feet per minute CID - Cubic inch displacement RPM - Revolutions per minute Vol. Eff. - Volumetric efficiency

4 Cycle Engines

$$CFM = \frac{RPM \times CID \times Vol. Eff.}{3456}$$

Volumetric Efficiency

Diesel Engines

Naturally Aspirated	=0.85
Turbocharged	=1.60
Turbocharged-aftercooled	=1.85

Gasoline Engines

up to 2500 RPM	=0.80
2500 to 3000 RPM	=0.75
3000 to 4000 RPM	=0.70

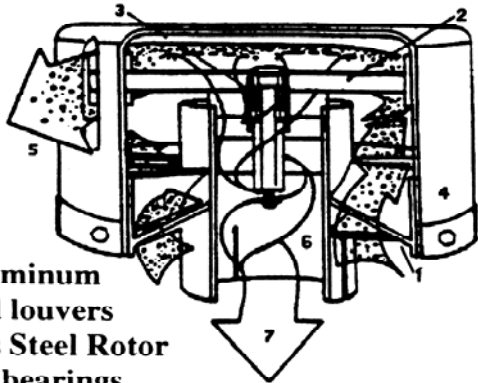


**THE FINEST ENGINE
INTAKE AIR PRECLEANER AVAILABLE**

ENGINAIRE precleaners are designed to remove most of the contaminants from the air that feeds the engine. The advantage of removing these contaminants are extended filter life, improved fuel economy and extended engine life. Turbochargers, blowers, cylinder liners, piston rings, and engine oil fail because of contamination. The ENGINAIRE precleaner is a precision manufactured product and a full range of models are available to fit most engines.

INSIDE THE ENGINAIRE PRECLEANER

Free engine intake air powers the ENGINAIRE precleaner. Incoming air is drawn through the angled louver plates (1) which direct the intake air to turn the stainless steel rotor (2) which is mounted on dual (2) precision ground heavy duty bearings (3). The centrifugal force caused by the spinning motion of the rotor separates the contaminants from the air, throwing them to the inner perimeter of the cover (4) and expelling them out through the discharge port (5). The clean dry air is drawn into the plenum chamber (6) and then into the engine (7).

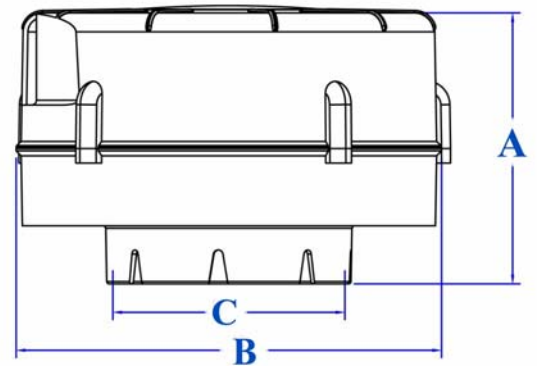


- 1. Cast Aluminum Angled louvers
- 2. Stainless Steel Rotor
- 3. Dual (2) bearings
- 4. Polished Aluminum Hood
- 5. Discharge port
- 6. Plenum chamber
- 7. To engine with CLEAN AIR

ENGINAIRE Composite Precleaners

Specially Formatted Composites to Withstand Heat, Cold, and Abrasion

**Built to Last so We Give Them a
*Lifetime Warranty***



Model	Intake	CFM	A	B	C	Horse Power Range (Nominal)
1.5 - 3/20	1.5	3 - 20	2.25	3.5	1.5	1.5 - 10 HP
2 - 20/150	2	20 - 100	3	4.75	2	5 - 50 HP
3 - 75/250	3	75 - 250	4.5	7	3	30 - 90 HP
4 - 150/465	4	150 - 450	5.375	9.375	4	75 - 200 HP
4.5 - 250/600	4.5	250 - 600	7	11	4.5	100 - 250 HP
5 - 250/600	5	250 - 600	7	11	5	100 - 250 HP
6s - 250/600	6	250 - 600	7	11	6	100 - 250 HP
6 - 350/1100	6	350 - 900	7.25	12	6	175 - 400 HP



*Anywhere Clean Air
Is Desired In A
Measurable Air Stream.*



*Tangential Filters and
Precleaners*



*Customized
Dust Collection*



*Enginaire's Patented
State of the Art
Integrated VLR
Filter/Precleaner*

**If you test and compare
You'll buy Enginaire
Because if you test
You'll find we're the best
We beat all the rest
By far!**



*Cab Air
Pressurization*



ENGINAIRE

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