

Performance air filters

A brief outline of what to look for when it comes to choosing the best air filter for performance applications.

Dhen designing or purchasing a performance intake for your clients' vehicles there is a few key things to look for. The main thing is whether the air filter will suit their needs for both horsepower and engine protection.

Volume of air between the air filter and intake is the most important when it comes to power. A basic formula to work out what is required when it comes to volume is, 1 and a half time the capacity of the engine in volume of air between the air filter and intake (Turbo/throttle body), anything less than this and you will start to create a big restriction.

Ideally, you want a little more. Example a 2-litre motor needs a minimum of 3-litre of air. One of the biggest mistake is people clamping a pod filter directly to a turbo. Straightaway the engine is restricted. No



Gallard Twin Turbo TT.

point spending lots of money to chase hp only to lose some by clamping a pod filter directly to the intake.

Surface area is another important area to look at. Most car makers get this pretty right. If anything a 30-50 per cent increase is more than adequate.



Custom Induction Pod and Adapter.

Cold air is important. When looking where to locate a filter you should look for the coolest area of the engine bay. Behind the headlight is usually the best location.

Filtration is probably the biggest thing to look at when choosing the best air filter. Some filters might flow really well but when it comes to actually keeping the dust out, they can be pretty poor. Always ask the manufacturer of the air filter what the filtration quality of the filter is. You should also consider what conditions the filter will be used in. If it is off road some filters well out perform others. Many are also serviceable which is critical when it comes to off road driving.

UNIFILTER PERFORMANCE AIR FILTER HISTORY

Unifilter has designed air filters for many performance applicationS over the last 40 years. They have designed air filters for Group A Touring Cars, V8 Supercars, Rally, Speedway, Performance street and Off Road racing.

Many of Australia's leading race teams have used their products. These include HRT, Stone Brothers Racing, Ford Performance Racing, Gibson Motorsport, Dick Johnson Racing, BMW Racing, Greg Murphy Motorsport, Perkins Engineering, Holden Dealer Team, Glenn Seton Racing, Ralliart, Subaru Rally Team, Possum Bourne Motorsport, MRT, Isuzu Racing Team and Brad Gallard Off Road Racing just to name a few.

Unifilter was also the creator of the Rampod, Rally Pods/Weber Socks performance street and Race air filters.

For more information unifilter.com.au or call (02) 4322 2007.



Filter application on a Toyota Hilux.