



➤ Our brushless fans cover 100s of applications from race to muscle to custom hotrods including popular engine swaps.

# HIGH PERFORMANCE ➤ BRUSHLESS FANS

## LIMITED SPACE WITH MORE COOLING!

Most builds today involve big engines which take up a lot of space and require a lot of air to keep cool. The traditional brushed high CFM fans are often times too thick. Most high CFM fans with shrouds will run between 4 1/2" to 5" thick or thicker. Our brushless fan and shroud will require only 3 5/8" of clearance and **moves a tremendous amount of air.**

## WHY BRUSHLESS?

Imagine holding a fan up in mid-air and measuring the amount of air being pulled through the fan. This is the advertised CFM rating of the fan. When you try pulling air through a lot of resistance, such as the core of a radiator, possibly an intercooler and even a condenser, the actual CFM of the fan will be drastically lower if it has a weak motor. The AMP draw of the motor is a better indicator of how powerful the fan is. The higher the AMP draw the more power, just like horsepower to an engine. Our high CFM brushed fans have an AMP draw between 18 to 25 AMPs, whereas our brushless fans can draw up to 40 AMPs. Operating under high ambient air temperatures and trying to draw air through cooling components, the brushless fan is the way to go.

## BENEFITS OF A BRUSHLESS FAN

- Motor gradually ramps up to prevent damaging AMP spikes
- Fewer components to wear out
- Very long life under all operating conditions & environments
- Variable speed allows for continuous fan speed adjustments based on fluid temps
- Higher AMP draw, allowing for better air flow through a lot of resistance
- Requires less clearance between the engine and radiator

Brushless fans provide reliability, extreme durability and performance under the most challenging cooling system issues or environmental conditions.

### Single 14" Fan 500W:

Z40149, Z40150, Z40159, Z40161,  
Z40162, Z40163, Z40165

### Single 16" Fan 500W:

Z40133, Z40134, Z40135, Z40136, Z40137,  
Z40138, Z40139, Z40140, Z40144, Z40148,  
Z40151, Z40153, Z40154, Z40156, Z40157,  
Z40158, Z40160, Z40164



**Dual 12" Fans 300W** Z40132, Z40141,  
Z40144, Z40145, Z40146, Z40147, Z40152

Learn More at [www.northernradiator.com/brushless-fans](http://www.northernradiator.com/brushless-fans)