



STāSIS - R8 4.2 High Performance Port & Flow Kit

General Description

The STāSIS High Performance Port & Flow (HPPF) Kit is a collection of specifically engineered components packaged together to exploit the maximum potential of the 4.2 liter R8 engine. We optimize the normally aspirated power by increasing the volumetric efficiency with modifications to the intake manifold, and the installation of our high flow exhaust system. The OEM intake manifold is precision machined to deliver a fixed increase in airflow to each cylinder. The increased airflow from the intake is balanced by replacing the restrictive factory exhaust system with our direct bolt-in, high performance STāSIS exhaust system. In order to properly capitalize on these hardware modifications, the twin Bosch ECU's are flashed with a calibration tuned specifically for this package.

STāSIS can be defined as a condition of balance among various forces and that is the driving force behind our unique engineering approach. Drawing on years of motorsport and engineering experience the STāSIS team develops a range of products for a vehicle that work harmoniously together.

For more information specifically about our exhaust system, please request our exhaust whitepaper

System Contents

- (1) STāSIS Ported Intake Manifold
- (1) STāSIS Signature Series Exhaust System
- (1) STāSIS Signature Series ECU Flash

Supported Audi Vehicles

Model: R8 4.2
Model Years: 2008-Present

Features

- Modified Intake Manifold is a direct replacement for the OEM Manifold
 - No modifications to factory equipment required.
- Manifold precision machined to match STāSIS specifications.
 - Bench flow tested for a proven increase in airflow of over 15% across all cylinders
 - Reduces pressure drop across the throttle bodies.
 - Airflow deviation between cylinders has been reduced, this creates more equal cylinder filling and increased volumetric efficiency across the spectrum.



- Manifold Plenum features aggressive red wrinkle powder coat finish
 - Improved visibility and durability over OEM finish
- Exhaust is a direct bolt-in replacement for the OEM unit.
 - Utilizes OEM V-band connection which allows for ease of installation and provides proper interface using a custom flange designed to mate with the OEM flange. Retains OEM heat shields.
 - CNC mandrel bent to ensure constant pipe radius.
 - Mounting and support plates are precision CNC laser cut, and utilize OEM exhaust hangers.
 - Full stainless steel TIG welded system reduces weight by 30 lbs.
- STÄSIS mufflers incorporate reflective (active) and passive technologies to optimize performance and sound.
 - Custom formed and welded muffler chamber combine with our "X" style crossover to reduce engine backpressure, creating a low pressure zone aiding in exhaust scavenging.
 - Exhaust back pressure is minimized and the amount of cylinder filling is increased over the OEM application and allows the engine to "breathe" more freely, resulting in an increase in volumetric efficiency.
- Reprogramming the ECU in conjunction with the intake manifold and exhaust installation allows for more increases in horsepower and torque over the stock programming due to an optimized calibration for the new airflow characteristics.

STaSiS Engineering R8 4.2 HPPF Kit Comparison - Crankshaft Power

