

Exhaust Surge Tank System for Octane Rating Engine



Shanghai Sinpar Scientific Instrument Co.,Ltd

Professional Manufacturer of Fuel Rating Engines

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Exhaust Surge Tank System

The Water-Cooled Exhaust Surge Tank System includes a Flex Exhaust Manifold, a Surge Tank and the Cooling Water spray and drain System, those are connected with the octane engine.

The exhaust system has the capability of eliminating resonance pulses and back pressure during octane rating operation.

Resonance pulses and back pressure may affect the stability of knock intensity signal. Eliminating interference from these variables results in more consistent and accurate octane test results.

Meanwhile, this exhaust system can effectively reduce noise and air pollution.

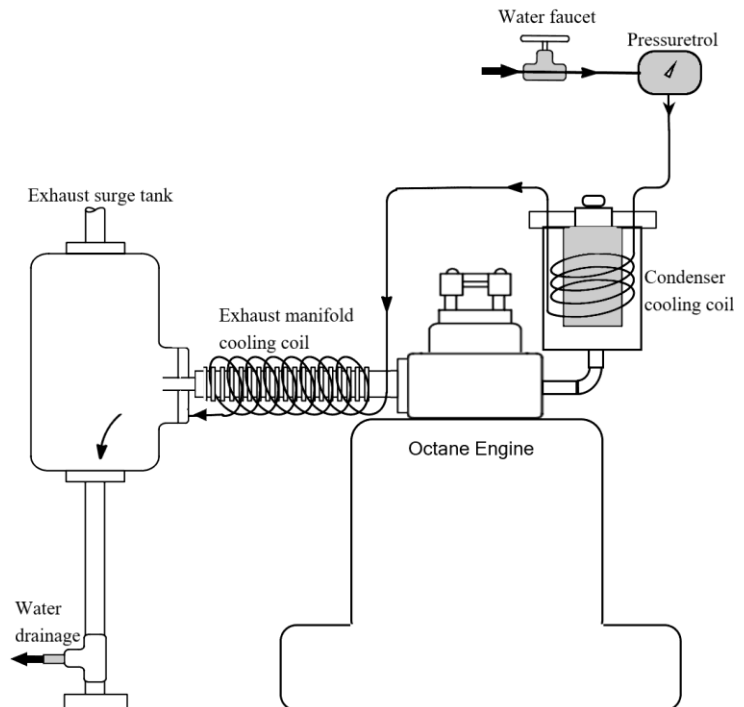
SINPAR FTC-M2 Combination Octane Rating Unit is equipped with the Water-Cooled Exhaust Surge Tank System as a standard configuration.



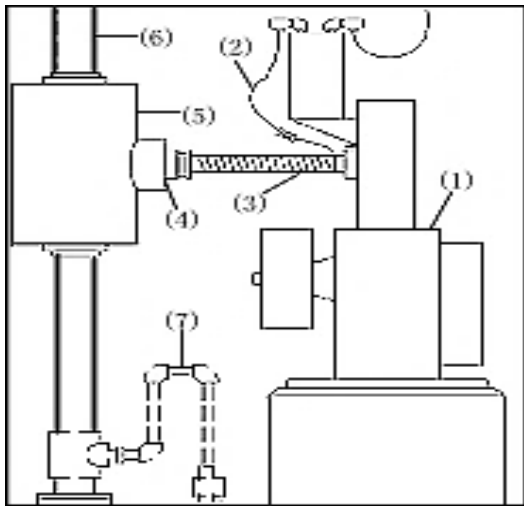
Features:

- ✓ **eliminate resonance pulses and back pressure**
- ✓ **reduce noise and air pollution**
- ✓ **easy-to-install**
- ✓ **water cooling**
- ✓ **anti-rust coating treatment inside and outside for durability**

Engine Cooling Water System Schematic:



The exhaust surge tank is equipped with a cooling water spray and drain system with a flange mounted spray ring assembly.



The Installation Structure of Exhaust Surge Tank System is suitable for various layout options for octane test lab. We recommend the use of the exhaust surge tank and its exhaust components as their design has been proven to perform with the Octane Rating Unit as a whole.

- 1) Octane Engine
- 2) Cooling Water Copper Tube
- 3) Flex Exhaust Manifold
- 4) Spray Ring Assembly
- 5) Surge Tank
- 6) 2 in. Exhaust Pipe
- 7) Cooling Water Drainpipe

Figure: Proper Installation of the Octane Engine Exhaust System

**Due to continuing products development, the illustrations used may differ from actual product.*

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