

QUADRANT SR-THERMAL OXIDIZER



The world's largest automotive manufacturer recently installed our QUADRANT SR-Series Thermal Oxidizer for use at destroying CO and VOC emissions from their engine test cell facility. The test facility houses several engine, transmission, and chassis dynamometer's. The manufacturer demanded a system that would provide the highest uptime reliability and highest performance.

The QUADRANT SR-Series Thermal Oxidizer was chosen as the most appropriate air pollution control system after a thorough analysis of the engine cell off-gas concluded that high inlet temperatures, high LEL, and wide range in air volumes would be delivered to the oxidizer.

The system installed was our QUADRANT SR-8,000 Thermal Oxidizer. The system incorporates the following:

- CPI's unique FLOATING TUBE HEAT EXCHANGER that does not use any expansion joints.
- CPI's unique sub-stoichiometric burner and combustion tube provides high VOC/CO destruction with lower NOx emissions than traditional systems.
- A user-friendly controls interface system that manages all the components and records specific data for use with Title V record keeping and interacts with the sophisticated dynamometer controls of this plant
- Low profile – modular design accommodates an indoor mezzanine level installation that could be lifted through existing door ways.
- High quality insulation keeps the shell temperatures low as to not effect HVAC of the area.
- +99% DRE at 1,400 F allows the unit to exceed the local air quality requirements at minimal expense.

For more information about this or any of our other custom engineered solutions, please contact us.

Thermal Oxidizers, Regenerative Thermal Oxidizer's, Catalytic Oxidizer's, Heat Recovery System's, Energy Conservation, Repair and Retrofit Services, Maintenance Services, Engineering