

JM

A_{dv}CCRT™ System Advanced CCRT



Second generation benchmark CCRT® technology verified for 2.5 g NO_x EGR and non-EGR engines; meets NO₂ slip requirements.

The A_{dv}CCRT System is Johnson Matthey's 2nd generation CCRT heavy duty diesel retrofit system optimized for more challenging applications. The patented A_{dv}CCRT System's advanced catalyst optimization requires no supplemental heat source and is verified to reduce PM over 90% for 2002-2006 2.5g NO_x EGR and non-EGR engines and meets EPA and CARB's stringent NO₂ slip requirements.

Johnson Matthey
Inspiring science, enhancing life

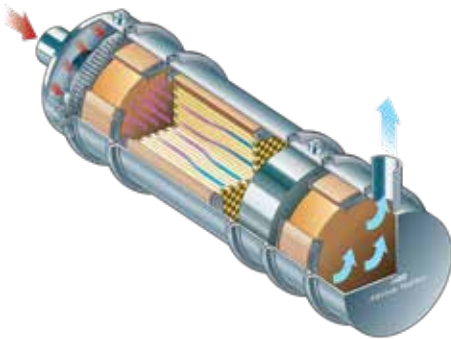


Technology driven

Based on Johnson Matthey's patented CCRT filter technology, the AdvCCRT™ System uses three distinct catalyst formulations specifically engineered for your application. Upstream, a JM oxidation catalyst coated on a flow-through substrate optimizes conditions for the second, downstream catalytically-coated wall-flow filter to burn off virtually all particulate matter (PM). The third catalyst, an NO₂ decomposition catalyst, then reduces NO₂.

Benefits

- Verified by EPA and CARB as a Level 3+ system.
- Meets both EPA and CARB's stringent 20% NO₂ slip requirements.
- Reduces PM more than 90%.
- Ability to reuse NO₂ to burn soot in low NOx/PM environment.
- Modular design for ease of installation and routine service.
- Minimal maintenance – no daily regeneration maintenance necessary.
- Operates with Ultra Low Sulfur Diesel (ULSD).
- Monitored by a specially designed electronic control unit (ECU) which monitors performance and delivers diagnostics on the unit.



AdvCCRT System diesel particulate filter cutaway.

Proven success

For over 40 years, Johnson Matthey has been the global leader in the emission control industry. Johnson Matthey provides catalytic solutions for controlling emissions from mobile and stationary sources and is the major supplier for the light and heavy-duty diesel markets.

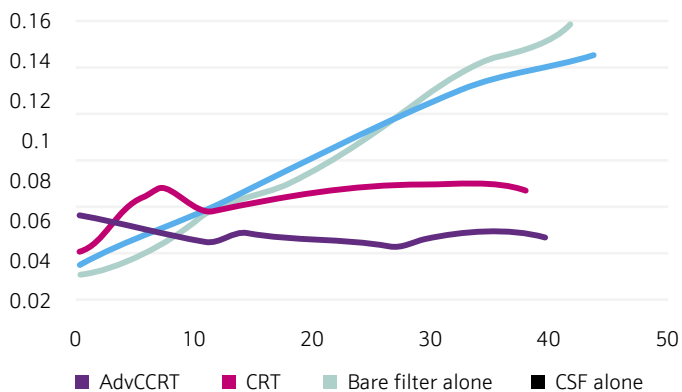
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AdvCCRT System chart



AdvCCRT System performance on different engines

