

RAC SERIES CATALYTIC SILENCERS

RAC SERIES OVERVIEW

The Maxim RAC Quick-Access series of catalytic silencers is the ultimate solution for natural gas internal combustion engine emission control in any environment. Easy to install and simple to maintain and operate, RAC silencers are designed to work efficiently and economically over a long, trouble-free life span. We offer the flexibility and performance needed to efficiently meet your specific requirements, plus innovative features that are only available from Maxim. Maxim Silencers are proudly made in the USA.

Our RAC silencers combine two solutions in one;

HIGHLY EFFICIENT EMISSION REDUCTION

- NSCR Three-Way (NO_x, CO, NMHC, HcHo)
- Oxidation (CO, NMHC, HcHo)
- Diesel Oxidation (CO, NMHC, PM)

PROVEN NOISE ATTENUATION

Silencing configurations are available as a housing only or with integrated silencers from industrial grade to hospital plus grade noise attenuation.

FEATURES

- Single wrench servicing of elements
- Gasket free seal between catalytic core and housing
- Hinged access cover
- Dual element capacity
- Platinum and rhodium metals provide long lasting catalytic activity
- Positive mechanical axial sealing of elements
- Multiple emission sample ports with separate element monitoring
- Low backpressure inlet diffuser for better exhaust distribution
- Minimum pressure drop design for housing and element

OPTIONS / ACCESSORIES

- Enhanced conversion element(s)
- Stainless steel construction: 304 or 316
- Side inlet and outlet
- Installs up to two NSCR Three-Way, Oxidation or Diesel Oxidation elements
- Attenuation/noise reductions available:
 - Housing only
 - Residential 20 to 25 dBA
 - Critical 25-32 dBA
 - Super Critical 30-40 dBA
 - Hospital Plus 35-50 dBA
- Top or side facing door arrangement
- Special paints and finishes available
- Complete range of exhaust accessories

ADDED VALUE

- Delivering distinctly-focused, customer specific engineered solutions within budget and on schedule
- Providing silencer sizing based on customer's application and desired emission reduction
- Custom designs available for the following extreme applications:
 - Very high temperature operations (above 1300°F)
 - Very low temperature operations (below 550°F)
- Near 100% NO_x or CO emission destruction



HOUSING ONLY CATALYTIC SILENCERS

Housing Only

RAC1 OVERVIEW

The RAC1 provides customizable emission reduction. The RAC is designed to require one wrench access cover removal for easy servicing of elements. Maxim Silencers are proudly made in the USA.

HIGHLY EFFICIENT EMISSION REDUCTION

- NSCR Three-Way (NOx, CO, NMHC, HcHo)
- Oxidation (CO, NMHC, HcHo)
- Diesel Oxidation (CO, NMHC, PM)

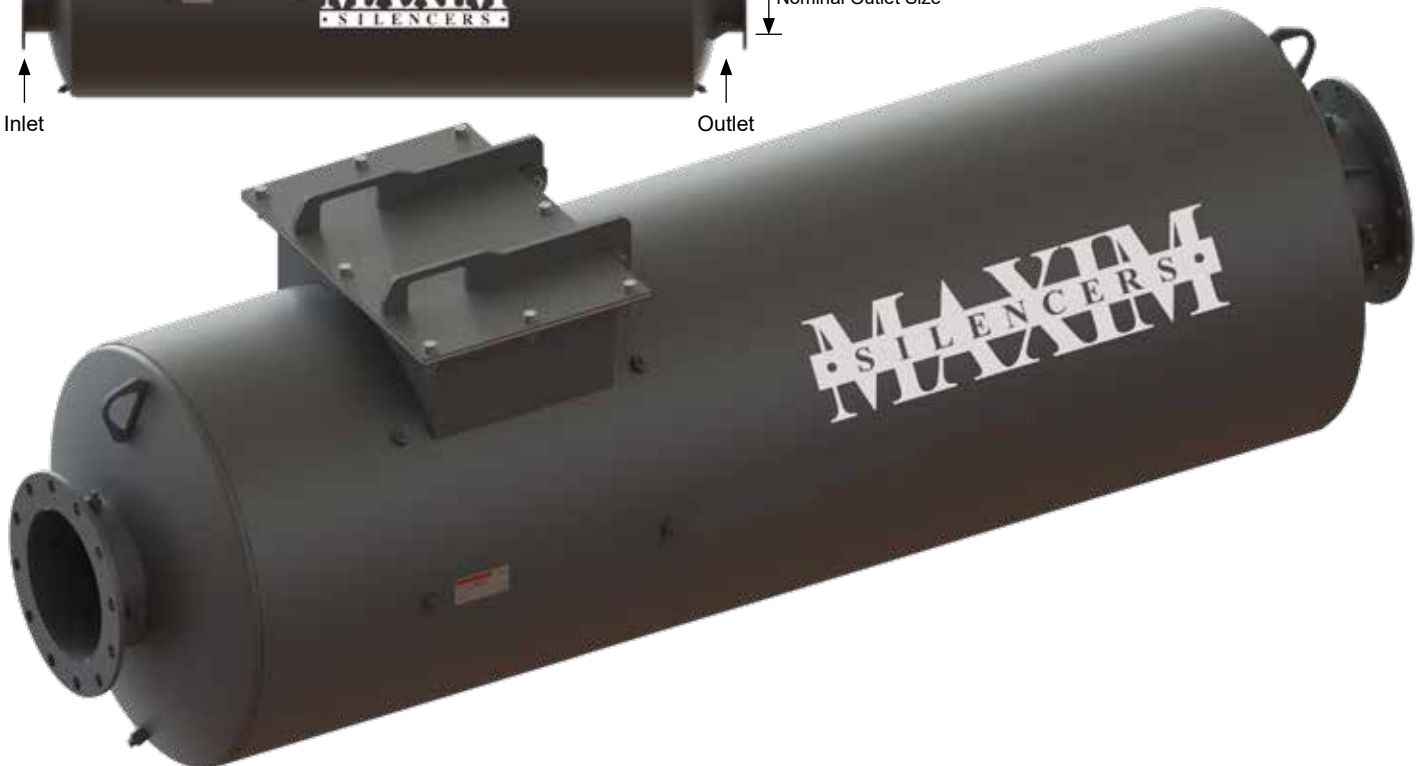
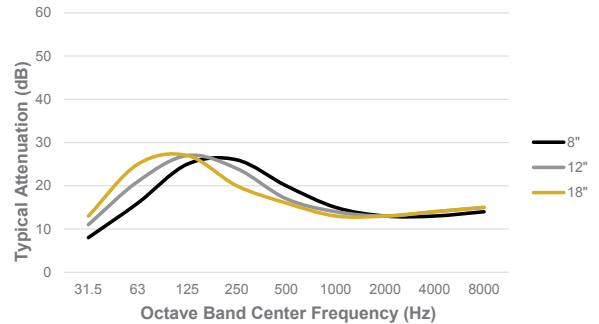
Typical applications: Gas reciprocating internal combustion engines, natural gas compression packages, electrical power generation, and engine driven pumps

FEATURES

- Hinged access cover
- Gasket free seal between catalytic core and housing
- One wrench to remove access cover
- Heavy duty, all welded construction and long service life
- High temperature prime coated exterior finish
- Multiple sample ports and separate element monitoring
- Test ports per EPA and TCEQ guidelines

OPTIONS / ACCESSORIES

- Stainless steel construction: 304 or 316
- Flexible connectors
- Companion flanges
- Cleanout openings
- Side inlet and outlet
- Horizontal or vertical support arrangements
- Top or side facing door arrangement
- Custom sizing
- Explosion relief cover
- Special paints and finishes available
- Installs up to two NSCR Three-Way, Oxidation or Diesel Oxidation elements
- Complete range of exhaust accessories



- Listed sound data is based on typical performance and should not be considered absolute.
 - *See nomenclature guide for additional information on part number creation.

RESIDENTIAL CATALYTIC SILENCERS

20 to 25 dBA Noise Reduction

RAC2 OVERVIEW

The RAC2 provides customizable emission reduction combined with Maxim's best silencing technologies. RAC2 delivers residential grade silencing for noise sensitive applications. The RAC is designed to require one wrench access cover removal for easy servicing of elements. Attenuation rating is with one catalyst element installed. Maxim Silencers are proudly made in the USA.

HIGHLY EFFICIENT EMISSION REDUCTION

- NSCR Three-Way (NOx, CO, NMHC, HcHo)
- Oxidation (CO, NMHC, HcHo)
- Diesel Oxidation (CO, NMHC, PM)

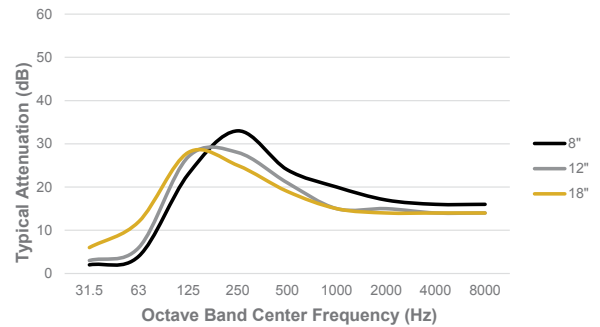
Typical applications: Gas reciprocating internal combustion engines, natural gas compression packages, electrical power generation, and engine driven pumps

FEATURES

- Hinged access cover
- Gasket free seal between catalytic core and housing
- One wrench to remove access cover
- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- High temperature prime coated exterior finish
- Multiple sample ports and separate element monitoring
- Test ports per EPA and TCEQ guidelines

OPTIONS / ACCESSORIES

- Stainless steel construction: 304 or 316
- Flexible connectors
- Companion flanges
- Cleanout openings
- Side inlet and outlet
- Horizontal or vertical support arrangements
- Top or side facing door arrangement
- Custom sizing
- Explosion relief cover
- Special paints and finishes available
- Installs up to two NSCR Three-Way, Oxidation or Diesel Oxidation elements
- Complete range of exhaust accessories



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CRITICAL CATALYTIC SILENCERS

25 to 32 dBA Noise Reduction

RAC3 OVERVIEW

The RAC3 provides customizable emission reduction combined with Maxim's best silencing technologies. RAC3 delivers critical grade silencing for noise sensitive applications. The RAC is designed for single wrench access cover removal for easy servicing of elements. Attenuation rating is with one catalyst element installed. Maxim Silencers are proudly made in the USA.

HIGHLY EFFICIENT EMISSION REDUCTION

- NSCR Three-Way (NOx, CO, NMHC, HcHo)
- Oxidation (CO, NMHC, HcHo)
- Diesel Oxidation (CO, NMHC, PM)

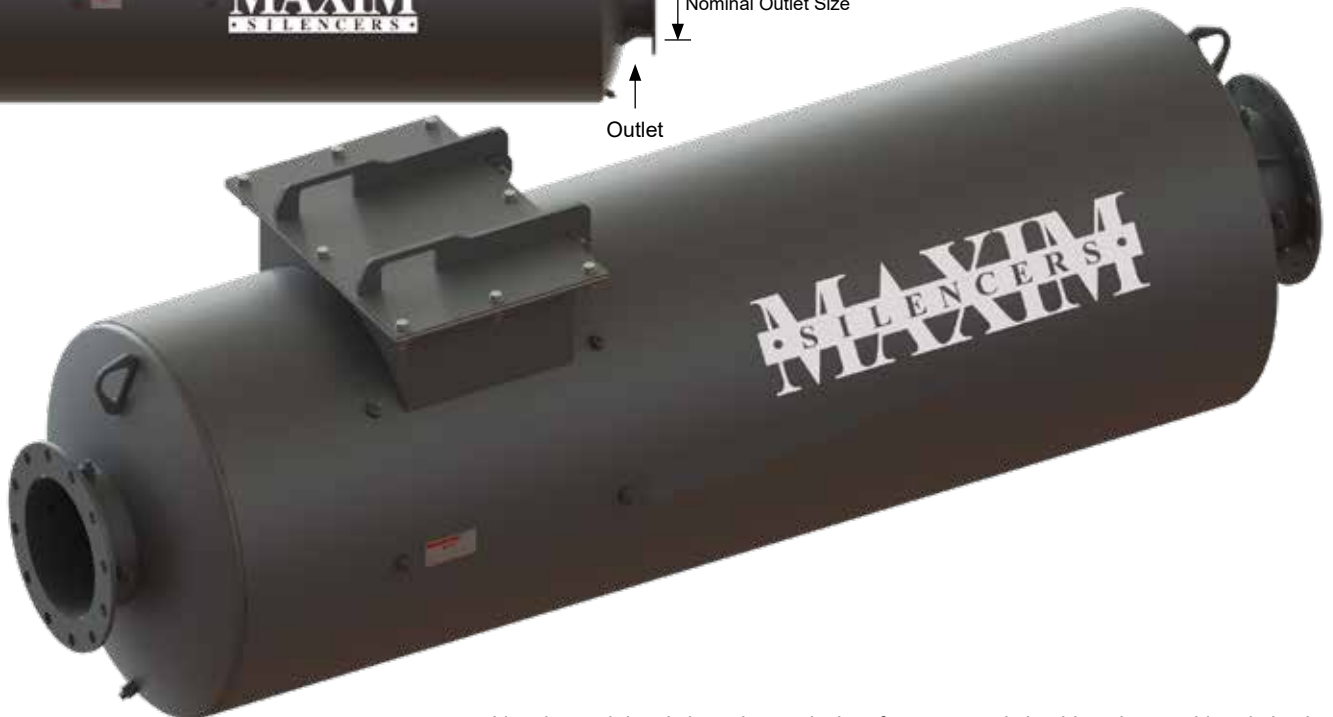
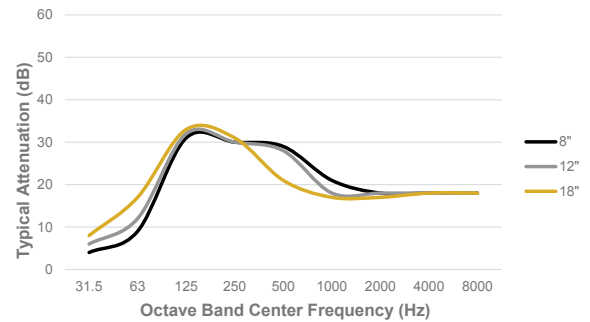
Typical applications: Gas reciprocating internal combustion engines, natural gas compression packages, electrical power generation, and engine driven pumps

FEATURES

- Hinged access cover
- Gasket free seal between catalytic core and housing
- One wrench to remove access cover
- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- High temperature prime coated exterior finish
- Multiple sample ports and separate element monitoring
- Test ports per EPA and TCEQ guidelines

OPTIONS / ACCESSORIES

- Stainless steel construction: 304 or 316
- Flexible connectors
- Companion flanges
- Cleanout openings
- Side inlet and outlet
- Horizontal or vertical support arrangements
- Top or side facing door arrangement
- Custom sizing
- Explosion relief cover
- Special paints and finishes available
- Installs up to two NSCR Three-Way, Oxidation or Diesel Oxidation elements
- Complete range of exhaust accessories



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SUPER CRITICAL CATALYTIC SILENCERS

30 to 40 dBA Noise Reduction

RAC4 OVERVIEW

The RAC4 provides customizable emission reduction combined with Maxim's best silencing technologies. RAC4 delivers super critical grade silencing for noise sensitive applications. The RAC is designed to require one wrench access cover removal for easy servicing of elements. Attenuation rating is with one catalyst element installed. Maxim Silencers are proudly made in the USA.

HIGHLY EFFICIENT EMISSION REDUCTION

- NSCR Three-Way (NO_x, CO, NMHC, HcHo)
- Oxidation (CO, NMHC, HcHo)
- Diesel Oxidation (CO, NMHC, PM)

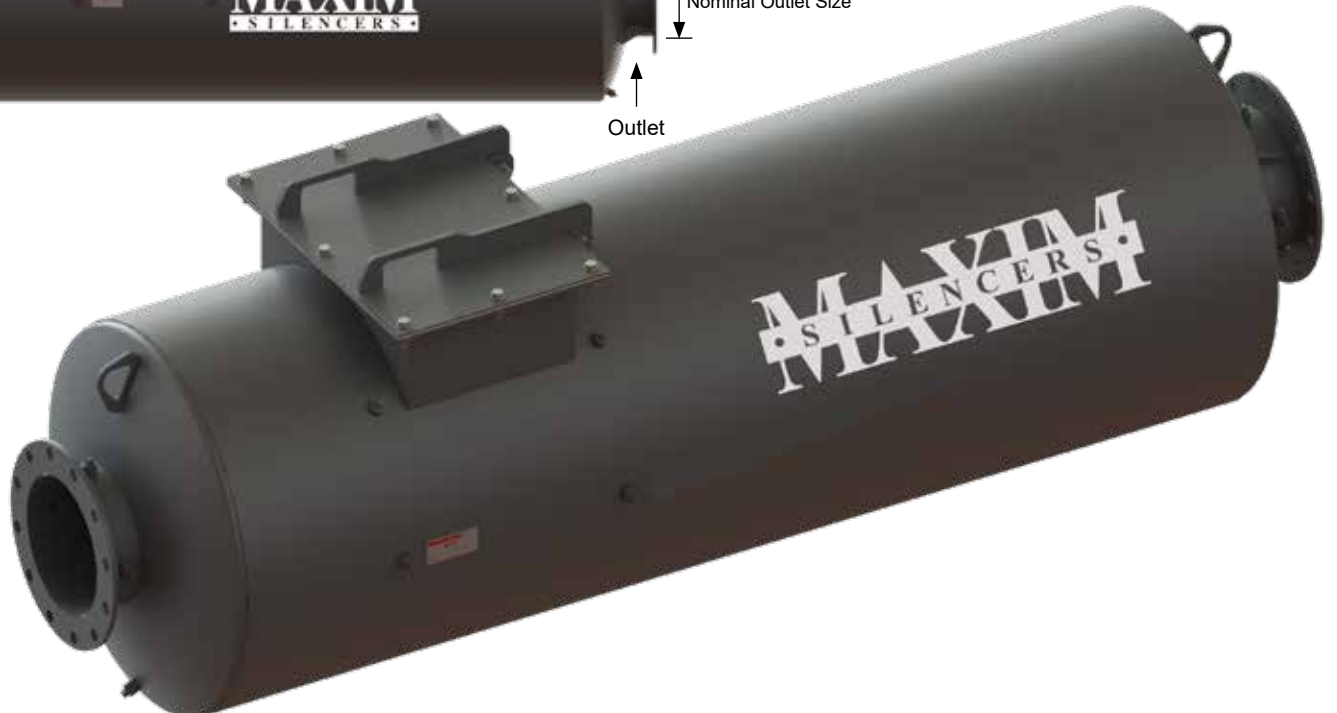
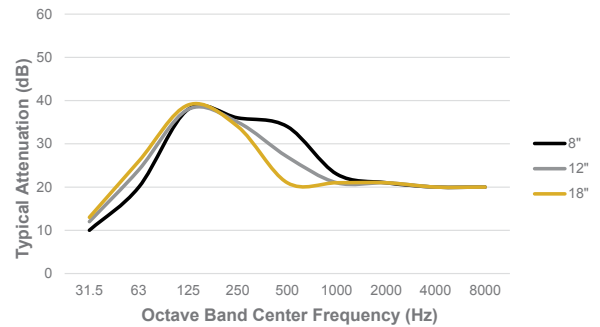
Typical applications: Gas reciprocating internal combustion engines, natural gas compression packages, electrical power generation, and engine driven pumps

FEATURES

- Hinged access cover
- Gasket free seal between catalytic core and housing
- One wrench to remove access cover
- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- High temperature prime coated exterior finish
- Multiple sample ports and separate element monitoring
- Test ports per EPA and TCEQ guidelines

OPTIONS / ACCESSORIES

- Stainless steel construction: 304 or 316
- Flexible connectors
- Companion flanges
- Cleanout openings
- Side inlet and outlet
- Horizontal or vertical support arrangements
- Top or side facing door arrangement
- Custom sizing
- Explosion relief cover
- Special paints and finishes available
- Installs up to two NSCR Three-Way, Oxidation or Diesel Oxidation elements
- Complete range of exhaust accessories



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HOSPITAL PLUS CATALYTIC SILENCERS

35 to 50 dBA Noise Reduction

RAC6 OVERVIEW

The RAC6 provides customizable emission reduction combined with Maxim's best silencing technologies. RAC6 delivers hospital plus grade silencing for noise sensitive applications. The RAC is designed for single wrench access cover removal for easy servicing of elements. Attenuation rating is with one catalyst element installed. Maxim Silencers are proudly made in the USA.

HIGHLY EFFICIENT EMISSION REDUCTION

- NSCR Three-Way (NOx, CO, NMHC, HcHo)
- Oxidation (CO, NMHC, HcHo)
- Diesel Oxidation (CO, NMHC, PM)

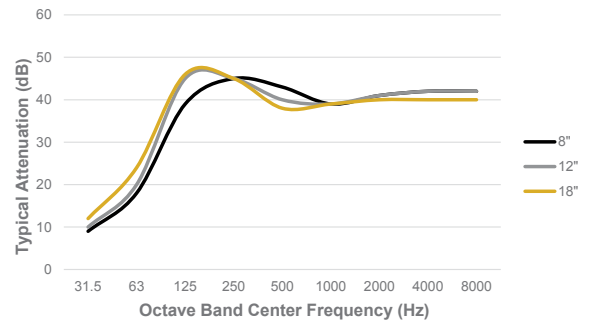
Typical applications: Gas reciprocating internal combustion engines, natural gas compression packages, electrical power generation, and engine driven pumps

FEATURES

- Hinged access cover
- Gasket free seal between catalytic core and housing
- One wrench to remove access cover
- Advanced acoustical design
- Heavy duty, all welded construction and long service life
- High temperature prime coated exterior finish
- Multiple sample ports and separate element monitoring
- Test ports per EPA and TCEQ guidelines

OPTIONS / ACCESSORIES

- Stainless steel construction: 304 or 316
- Flexible connectors
- Companion flanges
- Cleanout openings
- Side inlet and outlet
- Horizontal or vertical support arrangements
- Top or side facing door arrangement
- Custom sizing
- Explosion relief cover
- Special paints and finishes available
- Installs up to two NSCR Three-Way, Oxidation or Diesel Oxidation elements
- Complete range of exhaust accessories



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