

# The MIRATECH<sup>®</sup> QUAD-TUNED<sup>®</sup> Silencer

**QUAD-TUNED technology raises  
the bar for noise reduction!**

*Silencers field tested to UP TO 60 dB(A) attenuation –  
outperforms the competition!!*

- Designed to meet the sound attenuation market needs for high sound requirement applications
- Patent pending innovative chamber design employs quadruple-tuned reactive components that effectively controls sound
- Allows for higher sound attenuation than multiple silencers in a series and reduces risk of exhaust leaks
- Design algorithm allows “tuning” of the muffler to match a specific engine’s environment and application for optimal performance
- Can be applied to both horizontal and Ground Access designs
- Each system is customized to meet the specific needs of each customer



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# QUAD-TUNED Silencers

## ADVANCED DESIGN

MIRATECH's QUAD-TUNED Silencer offers an extremely high noise attenuation system for reciprocating internal combustion engines in various applications where superior sound reduction is required. MIRATECH's extensive quad-tuned solution field testing gives customers the confidence that their unique noise requirement situation will be met while not impacting their engine backpressure requirements. Simply put... MIRATECH's QUAD-TUNED Silencer **innovative design sets new standards** for sound attenuation!

## WHY IT'S BETTER

The QUAD-TUNED Silencer innovative reactive chamber design incorporates quadruple tuning. This design is more efficient than using multiple baffle sections in series. It also produces a wider range of attenuation compared to traditional attenuation designs. For example, its quadruple-tuned reactive components effectively control low frequency combustion sound. Mid and high frequency sounds are controlled with dissipative (absorptive) components. Then, the shell radiated noise is controlled with internal/external insulation (damping). Altogether, its design makes MIRATECH's QUAD-TUNED Silencers the superior solution on the market.

## ENGINEERED SOLUTIONS

Every customer's application is unique. Thus, MIRATECH's expert engineering and project management teams are available to support in every step of a project to ensure each customer's requirements are met.

## FULL SUPPORT CLOSE TO HOME

Technical services and training provided by MIRATECH, along with field service from authorized MIRATECH representatives, ensures prompt, reliable product support is just a phone call away from anywhere in the world.



## NEED EMISSIONS AND ACOUSTIC SOLUTIONS? CONTACT MIRATECH!

For more than 20 years, MIRATECH has been at the forefront in helping industries address emissions and acoustic standards. Whatever your emissions needs may be, count on MIRATECH for superior solutions. Just give us a call – or visit our website: [www.miratechcorp.com](http://www.miratechcorp.com).

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