



## Engine Exhaust Heat Recovery Silencers

Cogeneration or Combined Heat & Power (CHP) systems utilize waste heat streams that would otherwise be lost. As much as 30% of the energy input to an engine is lost through the exhaust. Recovering that energy in the form of hot water or steam can increase the overall efficiency of an engine plant to over 80%. Designed for years of service, MIRATECH's Vaporphase Exhaust Heat Recovery Silencers have the following features:

- Bare Fire Tube design is similar to standard fired boiler design. This makes the units easy to service and maintain by any qualified boiler shop. Units are easily cleaned with a flue brush or water wash.
- Two pass design puts the exhaust connections at the same end of the unit, simplifying piping layout. Removable end covers provide easy access for tube cleaning/inspection.
- Available in horizontal or vertical configurations. Horizontal units are supplied with mounting saddles. Vertical units are supplied with support legs.
- Available with an internal or external bypass, with either manual or automatic actuators. Automatic bypass can trim heat recovery during periods of low demand.



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# Heat Recovery Silencers



## ADVANCED DESIGN CAPABILITIES

MIRATECH is dedicated to solving problems with custom solutions, based on one-of-a-kind needs. No project, challenge, or configuration is too large or too small. Our team specializes in understanding the customer's specific needs clearly, then designs, engineers, manufactures, and delivers a total emission or acoustic turnkey solution that fits each unique need. Simply put... MIRATECH's team provides **innovative design solutions that set new standards!**

## WHY IT'S BETTER

MIRATECH products are known for their high quality and for performing as specified. All heat recovery silencers are designed and engineered by MIRATECH's dedicated in-house engineering experts according to ASME section I, IV, or VIII as applicable. Hot water units are designed to handle the full jacket water flow with low pressure drop. Through advanced technical software, extensive testing, and years of experience with standard and customized solutions, dimensions can be adjusted when needed to produce optimal heat recovery. With hundreds of thousands of installations, MIRATECH has become known for its proven performance and reliability!

## ENGINEERED SOLUTIONS

Every customer's application is unique. Thus, MIRATECH's expert engineering and project management teams are available to custom design and 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 or acoustic 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)**.

*Sign up at our website for your free subscription to our fact-filled electronic newsletter: THE EMISSIONS MONITOR.*



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