

# The MIRATECH® Catalyzer™ – Silencer Sizing Tool

Exhaust Silencer Sizing and Selection Tool for Acoustics, Backpressure, Drawings and Proposals.

*Web-based Engine Exhaust System Design and Sizing Tool.*

- For design of power generation, gas compression, marine, industrial or off-road engine-exhaust systems.
- Full range of exhaust silencer grades plus system piping and accessories.
- Acoustic and system backpressure calculations based on silencer-grade selections and piping layout.
- On-screen 3D workspace allowing for drag and drop placement of exhaust system components.
- Preloaded, searchable engine database or user data input.

The screenshot displays the MIRATECH Catalyzer software interface. The top navigation bar includes options for System Setup, Proposal, Request Assistance, Save, Edit, Add, and Split View. The main workspace is divided into a table of components and a 3D viewer.

Component	Component Type	Component Description	Quantity	Extended Prices			Pressure I
				Unit Price	Base	Optional	
YOBX-D08TF2-10PF2-450-360-00-2	Wye Connector	8" Carbon Steel Wye, 8" Tube Flange Inlet, 10" Pipe Flange Outlet, 36" Height	1	USD \$2422.40	USD \$2422.40	USD -	inH <sub>2</sub> O 0.7
OHBE2-10PF2-2-0000002Q	Oval Silencer	O-Series, Hospital Grade, Carbon Steel Oval Silencer, 10" Pipe Flange Bottom Inlet, 10" Pipe Flange End Outlet, No Lugs	1	\$5526.00	\$5526.00	-	4.9
EXTX-10TF1-10TF2-0120-2	Extension	Custom, Carbon Steel Extension, 10" Tube Flange Inlet, 10" Tube Flange Outlet, 12" Overall Length	1	\$599.97	\$599.97	-	0.1
ELX-10TF1-10TF1-100X0100-1	Elbow	Custom, Aluminized Steel, 90° Elbow, 10" Tube Flange Inlet, 10" Tube Flange Outlet, 10" x 10" Leg Lengths	1	\$1268.35	\$1268.35	-	0.6
STKX-10TF1-0120-2	Stack	Custom, Carbon Steel Stack, 10" Tube Flange Inlet, 12" Overall Length	1	\$511.15	\$511.15	-	0.0

The 3D viewer on the right shows a blue 3D model of the exhaust silencer system, including the oval silencer, extension, elbow, and stack, mounted on a grid.

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# Web-based Exhaust System Design

## ADVANCED SILENCER SELECTION

The program is web-based, allowing users to log-in from anywhere to create silencer project calculations, proposals and drawing packages. The program also saves all silencer sizing and proposals in a user file—so, the user can access, update or copy to new projects as needed.

## HOW IT WORKS

The preloaded engine database contains hundreds of the most widely used engine model exhaust and acoustic information, ranging from 30 to 4000 hp. If the required engine is not included, the user can enter their own data for the appropriate selection.

The program interface also creates a rotatable 3D model of the exhaust system for reference as the user builds the system to match the required layout. This allows the user to easily visualize the system, confirming all elements are included for overall backpressure.

MIRATECH Standard Silencer grades range from industrial to extreme; models range from cylindrical, disks and ovals to compact Cowl® spiral silencers, including spark arrestor and ATEX-certified silencers.

Program outputs on technical data (backpressure and acoustic performance), silencer drawings and proposal.

## FULL SUPPORT CLOSE TO HOME

Support and training are available at MIRATECH. We are pleased to arrange one-on-one training on acoustics, emissions and exhaust systems.



## NEED EMISSIONS AND ACOUSTIC SOLUTIONS? CONTACT MIRATECH.

For over 27 years, MIRATECH has been at the forefront in helping industries handle emissions and acoustic standards. Whatever your emissions needs may be, count on us for solutions. Just give us a call or visit our website at [MIRATECHcorp.com](http://MIRATECHcorp.com).

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