

exhaust Working with systems Pros

We specialize in the design and manufacture of intake and exhaust silencers and related equipment for diesel and natural gas engines and other industrial applications.

Silex

Application Expertise for Complete Exhaust System Design

From the engine turbo to the exhaust tail-pipe, Silex designs complete exhaust systems to meet all your requirements. Silex has the engineering expertise in acoustics, flow design, thermal expansion, structural integrity, ease of fit and installation to deliver the optimal solution for your application.

By manufacturing all of our products in-house, we control every aspect of performance, quality, delivery and price.

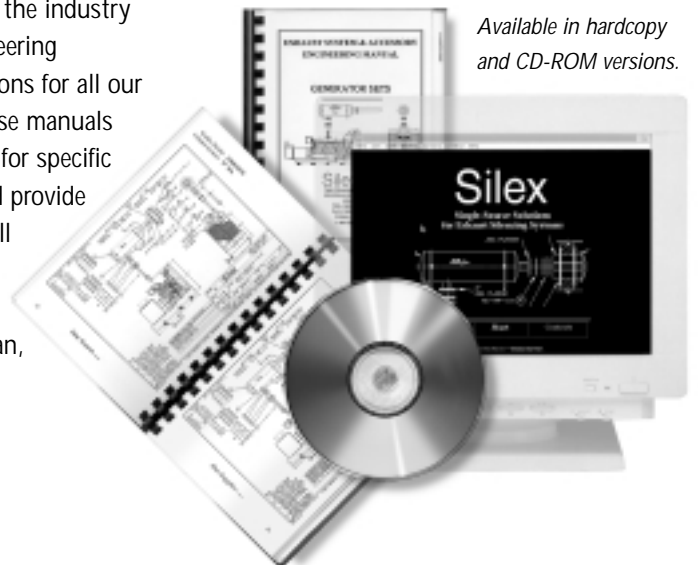
Silex is the *only* manufacturer in the industry that provides comprehensive engineering manuals with full design specifications for all our silencers and exhaust systems. These manuals detail exhaust system components for specific generator sets and orientations and provide general arrangement drawings for all generators from many leading generator set manufacturers, including Caterpillar, Cummins/Onan, Detroit Diesel, Generac, Katolight,

Kohler, Waukesha and Mitsubishi. They are ideal for the engineer tasked with the responsibility for the selection, design and layout of the generator set installation and the exhaust system.

Silex Engineer is a Microsoft Windows™ based design program available from Silex which enables you to select an appropriate silencer based on acoustic performance requirements and specific exhaust piping configurations.

Engineering manuals and price lists are available in hardcopy and CD-ROM versions. CD-ROM versions come with a Product Selection Wizard and a complete set of AutoCAD™ DWG files for all Silex products.

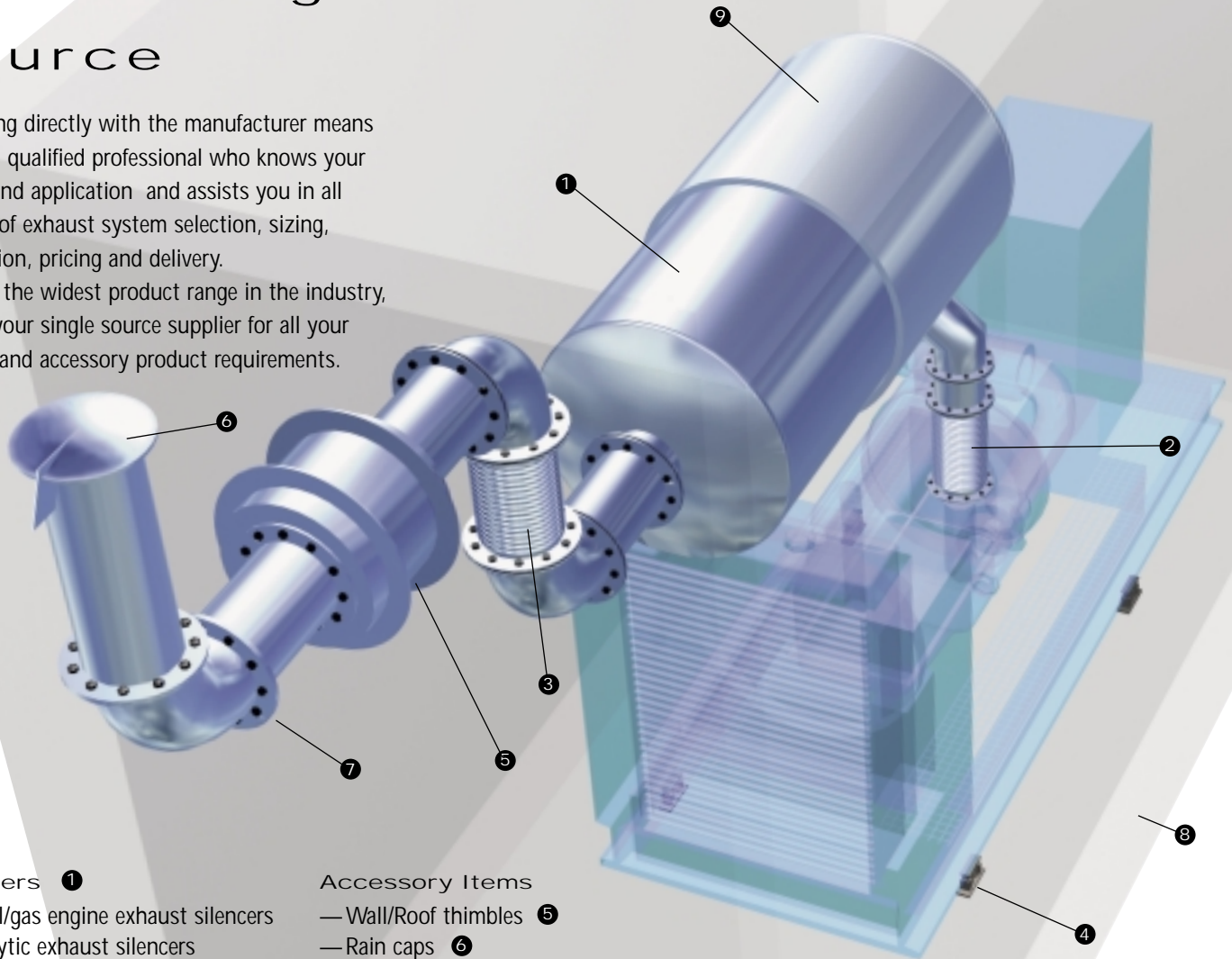
*Available in hardcopy
and CD-ROM versions.*



Deal direct with a single source

Dealing directly with the manufacturer means having a qualified professional who knows your engine and application and assists you in all aspects of exhaust system selection, sizing, installation, pricing and delivery.

With the widest product range in the industry, Sillex is your single source supplier for all your silencer and accessory product requirements.



Silencers ①

- Diesel/gas engine exhaust silencers
- Catalytic exhaust silencers
- Spark arrestor silencers
- Air filter silencers
- Blower silencers
- Gas turbine silencers
- Centrifugal fan silencers
- Vacuum pump silencers
- Active noise control silencers

Emissions Control

- Catalytic converters
- Soot and particulate controllers
- Air inlet filter silencers

Flexible Connectors

- Exhaust flex connectors ②
- Expansion joints ③
- Water and fuel flex

Vibration Isolators ④

- Single Spring Model SMD
- Dual Spring Model SMD2

Accessory Items

- Wall/Roof thimbles ⑤
- Rain caps ⑥
- Exhaust piping systems
- ANSI flanges and gaskets ⑦
- Exhaust pressure relief vents

Acoustic Housings/Enclosures

- Acoustically insulated containers
- Drop over generator and equipment housings
- Sound insulated enclosures ⑧
- Fuel sub-bases

Thermal Insulation Blankets

- Exhaust blankets ⑨
- Engine manifold and turbo blankets

The industry price leader

Sillex's lower prices mean better margins and reduced exhaust system costs for our customers when compared to other exhaust system manufacturers. You will see even more substantial savings if you have been buying OEM factory supplied silencers .

Silex Product Lines

Silex

Silencers

Silex has the broadest range of silencers available from one supplier. We design and manufacture standard silencers for general purpose applications and custom models to fit most OEM engines including dual-inlet types for engines with dual exhausts. Silencers are manufactured from aluminized steel, stainless steel or carbon steel depending upon the application and size.

Our standard silencers cover a broad range of models:

- Standard Reactive Silencers in Single-Inlet/Single-Outlet and Dual-Inlet/Single-Outlet Configurations
- Combination Catalytic Converter Silencers
- Spark Arrestor Silencers
- Absorptive Silencers for both Discharge and Inlet Applications
- Combination Reactive/Absorptive Silencers
- Compressor/Blower Silencers
- Gas Turbine Silencers

Silencers size and capacity range from 1-½" to 60" silencer inlets with varying insertion performance capabilities. They are used on engines from 5 to 15,000 horsepower and for up to 60 dBA insertion loss.

Flexible Connectors

Most engine installations require that all piping to and from the engine be supplied with flexible connectors. Silex has a full range of connector products to meet these needs including:

- stainless-steel exhaust connectors which incorporate engine-mating and silencer-mating flanges and eliminate the need for adapters and other costly "flower-pot" arrangements
- "Y" exhaust connectors for dual-outlet engines which are cost-effective and highly adaptable
- stainless-steel braided connectors for flexibility in rigid water and fuel lines which suit any flange or piping arrangement.

Vibration Isolators

Designed specifically for rugged generator-set applications, the all new Silex SMD and SMD2 vibration isolators provide an inexpensive way of isolating engine and gen-set vibration from buildings and structures. Model housings are a standard size so the load capacity of an isolator can be increased simply by changing the internal spring.

The SMD series incorporates a single spring and steel casting with capacities up to 3,000 lb. per isolator. Side dampers, level adjustment and a non-skid sound pad are standard. The SMD2 series has dual springs and a fabricated-steel housing. Capacity is up to 6,000 lb. per isolator.

Exhaust Expansion Joints

Flexible connectors provide little compensation for thermal expansion in exhaust piping. For example, 8" Schedule-40 exhaust pipe will expand approximately 7" per 100 ft at a temperature of 850 degrees F.

To compensate for this expansion, Silex manufactures a range of multiple-ply stainless-steel expansion bellows with standard 1-½" and 3" allowable axial expansion. Sizes are available from stock for up to 18" ANSI flange size.

Wall and Roof Thimbles

When an exhaust pipe or tube exits a building, the pipe should be isolated from the wall. For this purpose, Silex designs and manufactures wall and roof thimbles and assemblies in accordance with *NFPA-37*.

Our new self-supporting roof thimbles incorporate the exhaust silencer roof-mounting into the design of the thimble.

Emissions Control

Silex manufactures a complete line of industrial-sized catalytic converters and catalytic converter silencers with both 3-way catalyst and oxidation systems.

Our *SileNOX* 3-way non-selective catalyst provides maximum reduction of NOx, CO and HC. The catalytic converters are used in a large number of applications including gas compression, power generation, co-generation, irrigation and pumping stations.

Silex also manufactures the broadest line of converter/silencers in the industry. Our years of experience in the silencing field has been combined with our advanced catalyst technology to develop two standards in this product group. Our critical grade *SileNOX-CCS* and our hospital grade *SileNOX-HCS* provide unequalled emission and noise controls.

Acoustic Housings and Enclosures

Whether you require a simple drop over gen-set housing or a co-generation package in an acoustically treated container, Silex will design to your specific requirements in-house on our state of the art engineering software programs and manufacture in our own plant from the ground up.

Enclosures range in design from single skinned acoustically lined panels to 6" thick composite wall designs with 50 dBA reduction.

Acoustically treated containers can be furnished with inlet/outlet silencers, specially treated acoustic walls, air handling equipment, fire suppression, special lighting, extensive exhaust silencing systems, fuel sub-bases, acoustically treated inlets/outlets, special hardware and any other option that you may require.

Silex

Product

Applications

Diesel And Natural Gas Engines

- Standby and prime Power Generation
- Gas Compressor Packages
- Marine Propulsion for Ship Builders and Fleet Users
- Marine Shipboard Standby Power
- Locomotive Main Engine and Head End Power Units
- Irrigation Pumps
- Fire Pumps
- Drill Pumps

Industrial

- Air and Steam Blow Offs
- Petro Chemical Plants
- Pulp and Paper Plants
- Centrifugal Fans
- Gas Turbine Inlet and Discharge
- Vents
- Positive Displacement Blowers
- Vacuum Pumps

We are the
answer
for all of your
exhaust system
requirements.

Call a Silex
Application
Engineer today.

Silex

one source... one supplier

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