Kinetics Noise Control has been engineering and manufacturing vibration isolation and noise control products and systems for almost 50 years. We pioneered the use of pre-compressed molded fiberglass for vibration isolation. Throughout the years, we have developed and refined a complete line of noise and vibration control products. In addition to the airborne noise control products illustrated in this brochure, we also offer complete designed pipe riser isolation systems, computer-assisted seismic design, engineered floating floor systems for control of airborne and impact noise, and a complete selection of barriers, absorbers and damping materials. Kinetics offers the engineering expertise, laboratory, and field-testing capabilities to work with you and your acoustical consultant to develop a solution to your specific noise control problem.
Kinetics offers the design and engineering assistance to integrate our line of duct silencers into a system solution. As a result you may choose from a selection of standard or custom engineered duct silencers that will satisfy the requirements of each application.

Prime candidates for noise control measures are openings into and out of noisy environments. This includes the ventilation of buildings, enclosures, and equipment rooms. Integration of noise control measures such as silencers and louvers, into the system design requires careful consideration of space constraints, fan selection and aerodynamic pressure losses.

Applications:
• Fan Inlet and Discharge
• Air Handling Units
• Cooling Towers
• Radiators
• HVAC Duct Systems for Commercial, Institutional and industrial Buildings

Types: (Rectangular and Circular)
• Elbow Dissipative
• Straight Dissipative
• Reactive (No-Fill), Elbow and Straight
• Cross-Talk
• Custom Designs as Required
• Axial Cone
• Transitional

All Kinetics® silencers are backed by independent testing in a NVLAP accredited laboratory in accordance with ASTM E477-99.

Rectangular Duct Silencers Model VRS/3

Return Air Circular Duct Silencer Model CD-4-B2

Z-Shaped “Offset” Duct Silencer

Web-Based Silencer Selection and Acoustical Duct System Analysis Program

Kinetics Noise Control, Inc. offers you, at no cost, our one-of-a-kind, Web-based, silencer selection program. The program incorporates the most up-to-date, design analysis algorithms presented by ASHRAE. It dramatically reduces your engineering time, while designing quiet duct systems.

The program provides you with a complete, eight-octave band, acoustical analysis. It takes into account natural attenuation of duct and fittings, sound power splits, end reflection, insertion loss of insulated duct and fittings, system component generated noise and critical space/room attenuation. It allows entry of fan sound power level data for any manufacturer’s equipment used in the system. It is a true, “model-all” program. The program produces a complete acoustical report displaying whether your design meets the required critical space sound levels. If not, the program will automatically choose a silencer based on your height, width, length and pressure loss restrictions. The program contains our complete line of rectangular, round, dissipative, reactive, straight and elbow silencers.

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### Pressurized Plenums & Equipment Casings

**Pressurized Plenums**
The control of noise in modern buildings due to air-conditioning is a normal procedure in most projects. Kinetics designs and manufactures a complete line of pressurized plenum enclosures for heating, ventilating and air-conditioning installations. Designed to be erected in the field, our panel enclosures provide thermal and optimum noise control through sound absorption and sound transmission loss.

**Applications:**
- Built-up Air Handling Units
- Panel Duct Systems
- Outside and Exhaust Air Plenums
- Supply and Return Air Handling Systems

**Products Overview**
- 2-, 4-, 6-inch thick
- 18 Gage Solid / 22 Gage Perforated Skins
- Galvanized/Stainless/Aluminum
- Tongue & Groove Panel Connections
- Access Doors with Airtight Seals
- Double-Glazed Wire Reinforced Door Windows
- Removable Panel Sections
- Factory Located Duct Penetrations
- Plenums are Structurally Designed Based on the Internal Positive or Negative Operating Static Pressure with a Maximum L/240 Deflection
- AutoCAD Submittal and Piece-Marked Installation Drawings

Kinetics offers complete design and engineering assistance including layout, as well as, providing acoustical, structural and ventilation requirements.

### Industrial Silencers

**Generator Enclosure Ventilation Silencers**

**Cooling Tower Inlet and Discharge Silencers**

**Cleanable Baffle Silencer**

**Applications:**
- Fan Inlet and Discharge
- Cooling Towers
- Radiators
- Stacks, Blow-offs, Vents
- Safety and Relief Valves
- Equipment/Process Enclosure Ventilation
- Turbine Enclosure Ventilation

**Types:** (Rectangular and Circular)
- Elbow Dissipative
- Straight Dissipative
- Reactive (No-Fill)
- Custom Designs as Required
- Industrial Grade Construction
- Transitional
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AHU Plenum Interior

Control Room Equipment Casing

Built-up Air Handling Unit Casing

Air Intake Plenum with Acoustical Louver

Roof Top Factory Exhaust Silencer

Stack Insert Silencers
Kinetics™ Industrial Acoustical Enclosures are designed and manufactured using our standard NOISEBLOCK type "STL & HTL", tongue and groove panels. The panels are fabricated of solid steel outer skin, and solid or perforated steel inner skin. Panels are stiffened with pre-formed steel channels. Acoustic grade fill is packed under compression. The enclosures are available with doors, access panels, removable panels and ventilation packages. Materials of construction include: galvanized steel type G90, stainless steel, or aluminum.

Claims for hearing damage, safety and economic requirements make a noise reduction program essential for many industries. In the past, many manufacturing facilities were regulated by a government agency such as OSHA, but today insurance companies who seek to keep claims for hearing damage to a minimum for the facilities they insure drive the vast majority of noise regulation.

Kinetics offers complete design and engineering assistance including layout as well as providing acoustical, structural and ventilation requirements.

Applications:
- Compressors and Pumps
- Constant Power Generator Sets
- Grinding, Pulverizer, Chipper Processes
- Punch Presses
- Vacuum Pump and Positive Displacement Blowers Systems
- Outdoor Equipment
- Paint Booths
- In-Plant Offices
- Process Equipment
- Test Chambers
- Extrusion Processes
- Flame Spray Booths

Accessories:
- Acoustical Doors are equipped with heavy-duty hardware and seals to prevent noise leakage.
- Windows are double or single glazed, ¼" thick, laminated safety glass or wire reinforced including framing and sealing.
- Removable Panels for constant or intermittent access to equipment can be incorporated in the enclosure design.
- Ventilation Systems include intake and exhaust silencers as well as supply or exhaust fan system designs to meet the individual projects airflow requirements.
- Design & Engineering assistance including layout as well as determining acoustical, structural and ventilation requirements are included.
- AutoCAD submittal and piece-marked assembly drawings are also included with every project.
Industrial Process and Environmental NoiseBlock Enclosure Systems

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Gas Compressor Model HTL Panel Enclosure

Compressors and Pumps

Skid Mounted Equipment Enclosure

Chiller Enclosure System
The control of noise in every day life is very important. Unwanted noise can cause stress related illnesses and severe noise can cause hearing damage. To meet these requirements and to help solve many noise problems, Kinetics manufactures a complete line of acoustical barrier panels called NOISEBLOCK Barrier Panels. These panels can be quickly and easily assembled to provide complete or partial walls for utilities, transportation/highways, cooling towers, chillers, condensers, rooftop equipment and residential noise barriers. These panels are designed to be easily erected in the field and are also designed to provide optimum noise control through sound absorption and sound transmission loss.

Applications:
• Utilities
• Rooftop Equipment
• Residential Compliance
• HVAC Equipment Yards
• Industrial Processes
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Chiller Barrier Wall System, Before (right), After (above)

Combination VAL Louver and STL Panel Barrier Wall System

Four Sided STL Barrier Wall System

Equipment Yard Barrier Wall

STL Roof Top Barrier Wall

Roof Top Chiller Barrier Wall

HTL Chiller Barrier Wall with Access Door
**Wall and Ceiling Panel Sound Absorbers**

Kinetics™ Model KNP Panel Absorbers are functional, durable and aesthetically pleasing perforated panels which are used to control background and reverberant noise. Although primarily intended as an absorber, the panels will act as a barrier when a solid sheet metal back is added. KNP Panels are also useful as additions to existing barriers to reduce reverberation time and to lower reflected sound levels.

Model KNP Panels are excellent sound absorbers over a wide frequency range. Their acoustic properties combined with their appearance and rugged durability make them a perfect choice for test chambers, class rooms, factories, auditoriums, mechanical equipment rooms, gymnasiums, theatres, garages, hallways and other spaces where reverberant noise is a problem. KNP panels are suitable for outdoor use and are ideal for installation over existing barrier walls.

Model KNP panels can be attached to walls, ceilings or other surfaces and can be located in a manner to achieve a pleasing appearance. They are available with optional rear backing to increase their transmission loss and be used as a barrier. In addition, KNP Panels can be faced with perforated material on both sides and used as hanging absorptive baffles.

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**Fixed Blade Acoustical Louvers Model VAL**

Kinetics™ Fixed Blade Acoustical Louvers are economical, effective and attractive. They are designed for maximum attenuation when space is limited. They are aesthetically pleasing and available in various material types.

**Applications:**
- Building Vents
- Generator Room Vents
- Barrier Wall Systems
- Acoustical Enclosure Ventilation
- Commercial and Industrial Duct Systems

**Accessories:**
- Flanges
- Bird Screen
- Powder-Coat Finish
- Structural Design of Large Louver Banks

Acoustical Louvers are used as part of the intake/exhaust air system of buildings, structures, or equipment to help reduce noise produced by the system equipment. They have a relatively large surface area which compensates for their lack of depth.

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**Equipment Yard Absorption**

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**Model KNP Panel**

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**Model KNP-V Panel**

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**Test Room Model KNP Wall Panels**

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**Model VAL Louvered Barrier Wall Skirt**

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**Equipment Yard Louvered Barrier Wall System**

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**Custom Outside Air Intake Louver**
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