



MERLIN Noise Control

Sound Solutions • Done Right •

merlin
NOISE CONTROL

MERLIN Noise Control.

Sound Solutions. Done Right.

For more than 10 years MERLIN Noise Control has been a leader in delivering effective noise control solutions throughout Western Canada. With our integrated engineering, best-in-class products and services and unwavering commitment to delivering client excellence, we have been a partner-of-choice for today's leading organizations, creating a more peaceful and harmonious environment between industry and community.



Customer Centric Approach

At MERLIN, our number one priority is delivering client excellence in everything we do. We know our long-standing reputation of being a leader in quality noise control is only as good as our last job, our last performance. That's why delivering above and beyond, and always surpassing client expectations isn't just a notion, it's at the core of everything we do. Putting you first, always.

Guaranteed Performance

At the heart of MERLIN Noise Control is our unmatched performance guarantee. We stand behind what we make. Period. It's either done right or we will make it right. And that you can always count on.



Industries We Proudly Serve

Having an in-depth understanding of the industries in which our valued customers operate provides us further insights into the development, construction and implementation of our products and services. This is key to always being at the forefront of emerging trends and addressing the myriad of unique challenges facing different market segments.

With a combined experience of more than 30 years, the following are key industries we proudly serve:



Oil & Gas



Industrial



Commercial



**Power
Generation**



Petrochemical



Mining



Forestry

Front End Thinking

At MERLIN we believe every project is unique and therefore never apply a templated approach. Right front the on-set we go above and beyond thinking of innovative solutions for you challenges. Solutions that will further drive efficiencies, in terms of time and costs, while continuing to provide the highest quality deliverables.





Quiet your facility with confidence

Our extensive portfolio of proprietary noise reducing technologies represents the widest range of proven industrial noise abatement solutions and equipment in the industry.

- Temporary Acoustic Structure
- In-Situ Panelized Options
- Acoustic Ventilation
- Silencers
- Barriers
- Acoustic Enclosures
- Retrofit Services

Temporary Acoustic Structures

MERLIN Noise Control offers easy to set-up and take-down acoustic buildings and noise barriers, providing you with the flexibility to move quickly and efficiently for temporary operations such as drilling or fracking.

Our re-locatable structures can be custom-fitted to your needs. If your compressor station or well-site needs noise suppression, our acoustical experts will ensure quiet is maintained both on and off-site.

Our full solution options include:

- Noise abatement
- Piping
- Structural steel (non-building)
- Buildings/enclosures

In-Situ or Panelized Options

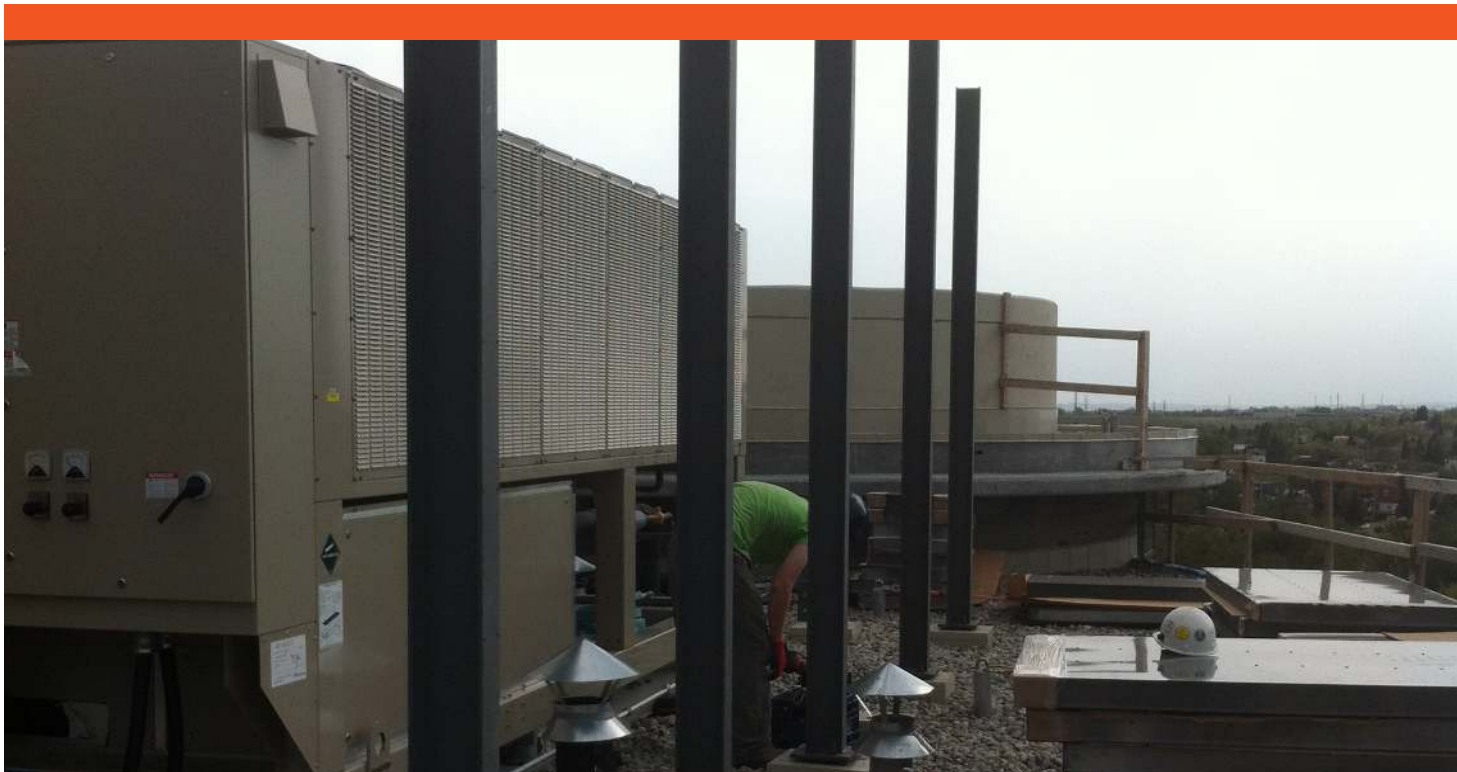
Our acoustic assemblies can be constructed in the field or prefabricated as panels in a shop. The advantage of each approach is dependent on your unique project parameters, including level of noise attenuation, cost of labor and project budget and schedule.

Built In-Situ

- Accommodates a variety of exterior finishes and architectural features
- Sealing & dampening using MERLIN Noise Control's proprietary technology prevents noise leakage and structure-borne vibration
- Easy to modify in the field
- Attenuation to STC 68
- Cost-effective

Panelized

- Labor saving
- 2", 4", 6" and 8" thicknesses
- Attenuation to STC 60
- Quick installation





Noise Barriers

MERLIN Noise Control's industrial-grade sound barriers are an economical solution to lowering noise from industrial equipment. Strategically placed, our acoustic barriers can work with other acoustical measures to limit emissions from multiple noise sources.

Noise Management Barrier Systems

Our industrial-grade noise barriers are custom designed for maximum noise abatement. Composed of sound-absorbing and sound-blocking materials for the best noise attenuation results, our freestanding, braced single walls or two-to-four sided structures provide an economical, noise control solution.

Built-in-Place Acoustic Barriers

Built-in-place acoustic barriers offer highly flexible designs:

- Free standing or braced
- Absorptive or reflective
- Durable metal surface
- Access panels or door
- Factory or field painted

Panelized Acoustic Barriers

Designed for ease of installation and removal, panelized acoustic barriers can be assembled to any size barrier and are ideally suited for areas requiring equipment access. Pre-fabricated panels are available in a variety of sizes and colors:

- Panels 5' to 15' long
- Durable metal, PVC, or concrete surface
- Absorptive or reflective
- Powder coated or galvanized metal surface

Acoustic Enclosures

MERLIN Noise Control offers acoustic enclosures to reduce noise from a wide range of industrial equipment. From compressor and pump stations, to upgraders and gas plants, we have a solution to your noise concerns. With more than 100 acoustic enclosures installed across Canada and a 100% delivery and performance record, our enclosures are available whenever and wherever you need them — guaranteed.

Noise Management

Assembly Details

- Materials: Galvanized or pre-painted steel, stainless steel or aluminum exterior
- Ventilation: Designed using silencers or louvers with considerations to pressure drop and specified temperature rise
- Cladding Profiles: Variety available
- Thicknesses: 2", 4", 6" (50 mm, 100 mm, 150 mm)
- Cladding Gauge: 24 gauge with optional gauges to 16 gauge
- Finishes: Galvanized and custom-painted in a variety of colors

Features

- Constructed from our proprietary assemblies
- Mounted to rigid structural steel frame
- Built in-situ or panelized
- On-skid or off-base
- Ventilation and ducting with silencers and louvers
- Acoustic equipment and personnel doors
- Removable panels for access

Benefits

- Guaranteed to meet your noise reduction goals
- Cost-effective designs
- Fast and easy field installation
- Installation supervision option
- Variety of exterior finishes
- Flat-pack, break-down options for easy shipping

Applications

- Gas Turbines
- Screw & Reciprocating Compressors
- Oil & Water Pumps
- Fuel Gas Conditioning
- Power Generation & Utilities

Enclosure Accessories

Ventilation and ducting to handle heat build-up is also supplied, as are relief and intake silencers, air filters and all other accessories for a comprehensive acoustic equipment enclosure package.

- Silenced ventilation and ducting
- Acoustic equipment and personnel doors
- Acoustic windows or viewing panes
- Removable acoustic panels
- Ladders & platforms
- All trim, screws and caulking

Installation

Our experienced Project Managers and Quality Assurance Supervisors can provide installation of the equipment enclosure, ventilation and silencing system, with attention to safety, on-time and on-budget.

Silencers

MERLIN Noise Control provides testing, analysis, design and installation of cost-effective custom designed silencers that offer guaranteed results. We use a proven, in-house proprietary silencer design program to design silencer baffles.

Our acoustic baffle fill material is tested for exact acoustic properties to ensure acoustic performance, and the material is sourced from high purity mines for durability in harsh environments. Our exhaust baffle supports are tried and true, built rugged and designed to withstand high thermal cycling use.

Cooler Silencers

MERLIN Noise Control's cooler silencers control noise from fin-fan coolers, cooling towers and air-cooled condensers while maintaining proper air flow, pressure drop and equipment access.

- Fin fan coolers
- Compressor coolers
- Induced draft cooling towers
- Air cooled condensers
- Chillers

Inlet and Exhaust Silencers

MERLIN Noise Control guarantees our inlet and exhaust silencers will achieve your acoustic design targets – no matter the limits. Our acoustical engineers test various DIL's (Dynamic Insertion Losses) to meet dBA, dBC or octave band requirements while maintaining acceptable pressure drops.

- Exhaust silencers in a vertical stack
- Exhaust silencers in horizontal ductwork
- Intake silencers
- Building ventilation silencers

Vent and Blowdown Silencers

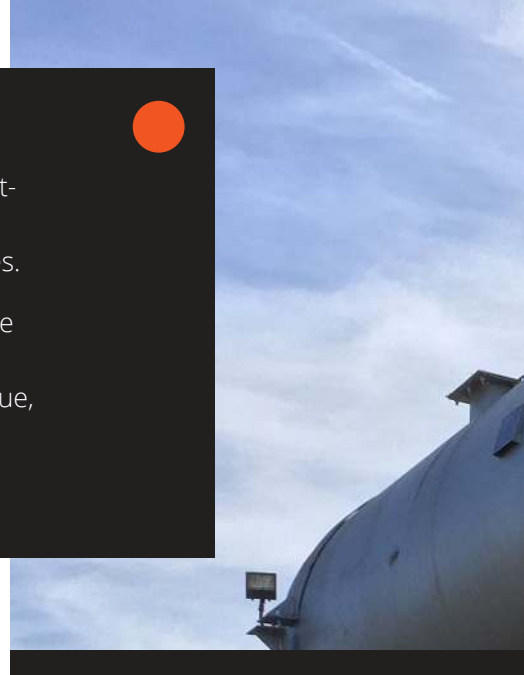
MERLIN Noise Control's vent silencers reduce noise levels associated with the discharge of high pressure gases or steam into the atmosphere. All our silencers are custom-designed to meet your specific noise reduction and back pressure requirements.

- Process vents
- Steam discharge at power plants
- Boiler blowdown
- Safety and relief valve discharge
- Compressor / gas transmission line blowdown

Acoustical Ventilation Systems

MERLIN Noise Control's acoustical ventilation systems reduce fan and motor noise using one or more noise abatement solutions.

- Quiet fans (axial or radial)
- Acoustically lined ridge vents
- Acoustically lined weather hoods
- Acoustically lined plenums
- Acoustically lined louvers
- Custom fan silencers





Duct Sound Abatement

Breakout noise and vibration from intake and exhaust ducts can be extreme with certain engines. To treat unwanted duct noise, MERLIN Noise Control provides custom-designed solutions.

- Lagging
- Double wall construction
- Vibration isolation
- Acoustic expansion joints

Retrofit Services

MERLIN Noise Control specializes in the retrofit of industrial equipment and buildings to achieve regulatory compliance and improved efficiency. Whether you are contemplating an expansion to your site or requiring upgrades to your noise or air emissions control equipment, we can help.

Solutions for noise and emissions compliance

Clients from a variety of industries have called upon our engineers to bring their equipment or facilities back into compliance or to a necessary performance level. For all our products, we can offer retrofit solutions encompassing:

- Site inspection and problem analysis
- Technical evaluation
- Engineering design
- Sourcing of materials or component fabrication
- On-site supervision of the installation
- Demolition and/or installation

For each retrofit project, we successfully bring together engineering, procurement, fabrication and construction. The benefits we offer using our turnkey approach include:

- Single source of responsibility for compliance or performance guarantee
- Elimination of client risk to achieve emissions or efficiencies targets
- Cost savings for our clients through streamlining of the design, procurement and construction processes
- Assurance of quality
- Assurance of site safety
- Guaranteed acoustical performance

Acoustic Ventilation

Quiet ventilation is needed when breakout noise is a problem. This can be caused when the ventilation system itself is the dominant noise source causing the system to increase the overall noise level of your facility.

Intake and exhaust systems control internal temperatures by channeling air over industrial equipment, cooling engines and removing heat. Noise from equipment inside the building can escape through intake and exhaust openings. These openings may need to be silenced to protect and maintain the surrounding environment.

In some cases, the interior of the building is quiet, but exterior noise from the large ventilation fans that bring in and expel air is a problem that must be attenuated.

MERLIN Noise Control can reduce noise breakout and fan noise using:

- Quiet fans (axial or radial)
- Acoustically lined ridge vents
- Acoustically lined weather hoods
- Acoustically lined plenums
- Acoustically lined louvers
- Custom-designed silencers



MERLIN Noise Control: Your Partner Every Step of the Way

Our comprehensive services and extensive industry expertise ensure you're in good hands every step of the way.

Full-Service Solutions

When we say full-service, we deliver. MERLIN's extensive experience and insight uniquely positions us to provide a full-service solution. From our initial assessment to providing the most advanced options, detailed engineering, custom manufacturing, installation, final testing and everything in between, our team is there every step of the way.





MERLIN Integrated Solutions Total Solutions. Done Right.

For more than a decade MERLIN Integrated Solutions has been a respected authority in delivering Noise Control, Construction Services, Architectural Products and Operational Health and Safety throughout Western Canada. Our customer-centric approach combined with our unparalleled guarantee continues to define MERLIN and drives our team to setting the highest of standards for others to follow. This is further complimented by our unwavering commitment to always being at the forefront of each of our areas of focus, ensuring we are leaders in solving complex challenges through the most advanced solutions.

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