



Industrial Silencers | Noise Control Equipment | Accessories



## Company Overview

### History

dB Noise Reduction was established in 2002 to design and fabricate noise control equipment for industrial rotating equipment. Our team has decades of experience in designing noise control, filtration and vibration equipment.

### Locations

Our head office is located in Cambridge, ON with additional sales offices in Dublin, OH. Our product manufacturing takes place at locations in the USA, Canada and Mexico. All are capable of handling equipment sized up to 25,000 lbs.

### Manufacturing Specifications

Construction materials include carbon, galv and stainless steels, special alloys and high temperature steels, as well as, FRP and PVC.

Our welding is in accordance with AWS and CSA-CWB, and ASME as required. All existing facilities are ISO certified in accordance with our strict quality control procedures.

# **dBNR Products and Applications**

## **Intake and Discharge Silencers**

Each industrial silencer is custom designed to meet exact customer requirements. They are typically used on industrial fans, compressors, industrial ventilation and other high volume/pressure applications.

100 and 200 series silencers are absorptive designs for use on the intake and discharge of systems. They can be straight through or elbowed depending upon the customer requirements, space limitations or acoustic requirements. They can be fitted with integral rainhoods, filterboxes, transitions, flow measurement sensors and other accessories.

Silencers are available in sizes as small as 6 in. diameter to 20 ft x 20ft cross-sections, with flows up to 2,000,000 CFM. Materials of construction include: carbon, galvanized and stainless steels, aluminum, special alloys, FRP and PVC.



Circular Intake  
Silencer



Intake Cowl Silencer  
for Gas Turbine  
Building Installation



Rectangular  
Intake Silencer

# Stack Silencers and Engine Mufflers

## Stack Silencers

Stack silencers can be designed to be dropped in as a complete unit or as separate baffles where support brackets are installed on the stack wall.

## Engine Muffler and Silencers

The 300 series of absorptive and reactive silencers are designed for the inlet and exhaust of internal combustion engines, turbo machinery and compressors. They can be absorptive, reactive or a combination of both.



Stack Silencer for South American Power Plant



Reactive and Absorptive Engine Mufflers



Circular Stack  
Inlet Silencer



Building Exhaust  
Stack Silencer



Reactive/Absorptive Engine Muffler

# Vent Silencers and Noise Enclosures

## Vent and Blow-Off Silencers

400 series silencers attenuate noise from high pressure/temperature steam, natural gas and other high pressure applications.

## Noise Control Enclosures

Enclosures are custom designed to be broken down for shipping, or as a complete unit. Integral skid, filtration, ventilation, louvers, access doors and acoustical panels are just some of the accessories which can be included.



Vent Silencers



Oil and Gas Noise Enclosure



Steam  
Vent Silencer



Natural Gas  
Vent Silencers



Mine Fan Intake Noise Enclosure

## Filtration and Weatherhoods

### Filtration

Our filterboxes are custom designed to ensure that clean air enters fans, reciprocating engines, gas turbines and other types of equipment. Prefilters, intermediate and final filters are designed with the filter efficiency specified for the project.

### Rainhoods

dB Noise Reduction offers a number of acoustic rainhood and cowl designs for intake and discharge applications. These include vertical intake hoods, mushroom hoods, whistle-cut cowls, 90° downturned cowls, sawtooth cowls and gooseneck hoods.



Vertical Vent Silencer with weatherhood



Rectangular Weatherhood



Rectangular Mushroom Hoods



Gooseneck Rainhood with Birdscreen

# Flexible Connections and Expansion Joints

## Flexible Connections and Expansion Joints

EPDM rubber and PTFE designed and built based upon solid engineering principles ensure they are designed with the flexibility required to absorb vibration from the continuous motion, thermal expansion and vibration experienced in piping systems.

Incorporating a flow liner optimizes the air flow across the expansion joint thereby reducing pressure drop and improving the aerodynamic properties. Noise break out can be significantly reduced by using an acoustically rated dBNR flexible connection.



Circular EPDM Flex  
Connections



High Temperature Rectangular PTFE  
Flex Connections with Flow Liner



## Our Commitment

dB Noise Reduction is committed to providing the best noise control solutions for our customers.

Our team of engineers, designers and manufacturers are experts in the production of high quality customizable noise control solutions for a variety of applications.

We are committed to designing with the right solution for the application, with the right equipment, priced competitively and completed in a timely matter to ensure customer satisfaction.

All of our products are evaluated and designed by professional engineers with years of experience in application engineering, product design and the latest in technology and standards.

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