



UNIVERSAL SILENCER

Acoustic and Emission Technologies

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Installation, Operation and Maintenance Instructions for UCI, UCD, URB and URD Series Blower Silencers

Description

The UCI, UCD, URB and URD series of blower intake and discharge silencers are a reactive design that is suitable for many rotary positive displacement blower applications. It provides effective pulsation control and noise reduction for a wide range of operating conditions. The standard unit of this series is designed for applications where the temperature does not exceed 500°F (paint limited to 350°F), the pressure does not exceed 15 psig and/or vacuum does not exceed 15"Hg. There are no moving parts in the operation of the blower silencer units.

Receiving Inspection

- Upon receipt of the unit, check the nameplate against the packing list to verify the correct part numbers are received.
- Keep the shipping container to protect the unit until installation.
- Prior to unpacking check for shipping damage.
- Advise Universal Silencer of shipping damage within three days.

Storage

- Leave any cardboard boxing, plywood covering, crating, and/or plastic covering intact until ready to install.
- Be sure that all openings are closed so that no debris, vermin, rain, snow and/or ice can get into unit.
- Store unit on blocks, a minimum of 4" high so that air can freely circulate around unit.
- Do not store in contact with the ground or in a wet or flooded area.
- Indoor ambient temperature storage is preferable. If this is not possible, keep the unit covered and protected from the weather.

Inspection and maintenance

- Components are either complete weldments or permanently assembled having no replaceable parts.
- Spare parts are not required.
- Periodically inspect paint finish for damage or deterioration. **NOTE:** Minor localized damage, such as scratches, may be repaired using touch-up paint. Areas with extensive damage or deterioration may require spot blasting and recoating. Consult paint manufacturer's recommendations.
- Examine connecting flanges and support/ anchor bolting at least annually. Retighten loose nuts as required.

- Clean unit prior to installation. Remove any minor corrosion and refinish per paint manufacturer's recommendations. If major corrosion has occurred such that the integrity of the unit is in question, contact Universal Silencer.

Mounting and alignment

- Insure that the necessary equipment to install the unit, including anchor and/or support bolts, flange bolts, and expansion joints, are available before beginning.
 - Anchor and/or support bolting and grouting is not included with the unit.
 - Place the unit on a level, structurally adequate surface.
- + **IMPORTANT:** The unit is not designed to serve as a support for any piping, additional mounting pads or loads on the inlet or outlet other than those stated in the Universal Silencer drawing or product bulletin.
- Align the unit with the blower and piping connections.
 - Mount the unit securely to the foundation.
 - To reduce the likelihood of vibration induced damage to the unit we recommend that you install a suitable expansion joint between the unit and the blower.
 - Use thread lubricant on all bolted joints.
 - Use all gaskets provided with the unit.
 - If you replace or add bolts or gaskets, use the same size and material as the originals.
 - Ensure that the unit is firmly mounted immediately prior to startup of the equipment, and again after 24 hours startup to verify that the unit has not vibrated loose from the foundation or supports.

Safety Issues

- **CAUTION** - All personnel working near high-temperature blower components during operation and cool down period should use care to prevent injury due to contact with high temperature surfaces.
- If performing any work internal to the silencer or adjacent components, ensure that all confined space requirements are met and that all tools and other materials are removed once work is completed. 608-873-4272