**RD-HB**

Rectangular Dissipative Horizontal Box Centrifugal Fan Inlet Silencer

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**Description**

**THE VIBRO-ACOUSTICS RD-HB** is a 2-stage silencer system using aerodynamically designed rectangular baffles for optimal attenuation, followed by a plenum space for air diffusion upstream from the fan. The continuous inlet flanges ensure low generated noise levels. The RD-HB is typically bolted directly to the fan’s flange, which eliminates problematic noise flanking caused by flexible connections. The silencer should therefore be isolated in the same manner as the fan system.

**Standard Features**

- HRS casing with external prime painting and continuously welded seams
- External gauges compatible with fan construction
- Inlet and outlet flanges with customer specified hole pattern
- Connection to either round or rectangular fan inlet
- Internal stiffeners

- 16 ga. galvanized perforated internal liner
- Acoustic grade fibrous media fill under minimum 15% compression with fiberglass cloth protection
- 1 in. x 1 in. x 16 ga. galvanized birdscreen inlet protection
- Support legs to match fan inlet centerline height

**Accessories**

- Rain hoods
- Inlet filter housings
- Duct transitions or spool pieces
- Bolt and gasket kits
- Flow measurement probes

**Options**

- Special painting systems
- Corrosive resistant coatings
- Support brackets
- Access panel
- Drainage connections
- Removable birdscreen
- All galvanized or stainless steel construction materials
- Custom designs and configurations for special space and performance requirements