

ABSORPTIVE SILENCERS

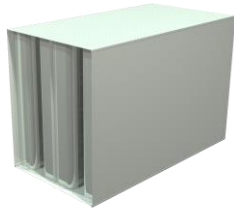
Commercial Products

Product Description

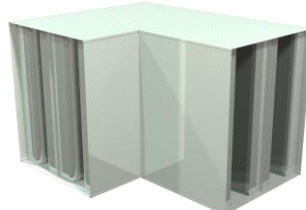
VAW Systems' **RSA** (Rectangular), **REA** (Elbow), and **CSA** (Circular) silencers are specifically designed for noise control in commercial HVAC air distribution systems and industrial ventilation systems. These products provide a broad-band range of attenuation using aerodynamically shaped acoustic baffles filled with absorptive acoustic grade media. With radius inlets and tapered outlets, maximum attenuation at the lowest possible pressure loss is assured.

Features include:

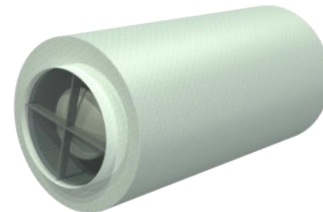
- Inlet and outlet connections matched to actual duct dimensions to avoid the need for transitions
- Excellent balance between acoustic and aerodynamic performance
- May be assembled in a modular fashion and/or sized to meet shipping and handling requirements



RSA



REA



CSA

Applications

- Supply and return air systems
- Close coupled fan plenums and air handling units
- Roof top air handling systems
- Plant and generator room ventilation
- Exhaust openings from manufacturing and industrial facilities
- Ventilation for acoustic equipment enclosures
- Air conditioning installations and cooling towers

Accessories

- Support brackets
- Airflow probes
- Access doors
- Drainage connections

For special applications, such as high temperature, corrosive, or high pressure systems, consider VAW's Industrial Silencer product line.

Standard Features

- Casing: 22 ga. galvanized steel
- Internals: 22 ga. galvanized perforated steel with stiffeners and acoustic grade fiberglass media fill
- Constructed in accordance with ASHRAE® and SMACNA® standards

Standard Rectangular and Elbow Size Ranges

- 6 in. to as required connection width dimension
- 6 in. to as required connection height dimension
- 36 to 144 in. long casings

Standard Circular Size Ranges

- 6 to 72 in. diameter connection dimension
- 36 to 120 in. long casings
- Casing outside walls \geq connection ID

Certified Performance Data

For over 40 years, VAW has been testing, designing, and fabricating noise control products for the HVAC and fan industry in North America with a unique program driven by our experienced acoustic engineers.

Our performance data are based on extensive testing:

- Product validation and applied research within our Noise Control Applications Laboratory
- Third party testing at NVLAP® accredited facilities
- Field verification tests

Refer to our Certified Performance Data Sheets and our Selection Software for a complete set of product ratings.



VAW Systems Noise Control Applications Laboratory

Construction Options

- Heavy casings (HTL): 10 to 20 ga. steel
- Casing materials: Stainless (304 & 316), Satin Coat Aluminum, and HRS with paint finish
- Flange configurations and materials
- Cotton media fill
- Custom configurations for space and weight restrictions
- Transitional (unequal inlet and outlet dimensions)
- Special paint system
- Extended casings for higher velocities and enhanced attenuation – (EH & EW)
- Fiberglass cloth and protective lining
- Special shipping splits
- Removable baffles, center body and side panels

VAW Model Number Definition

The following model name system applies to rectangular silencers (e.g. REA-24V80x72)

RSA	-	_____	X	_____
Product Type (RSA or REA)		Frequency code (12 to 48 in.)		Velocity Code (V12, V20, V30, V40, V50, V60, V70, V80, V96)
				Casing Length (36 to 144 in.)

VAW Model Number Definition

The following model name system applies to circular silencers (e.g. 12CSA-20V90x48)

_____	CSA	-	_____	X	_____
Connection Size/ID	Product Type		Casing OD (ID +0, +4, +6, or +8)		Velocity Code (V50, V60, V70, V80, V90, V100)
					Casing Length (36 to 144 in.)

Selection Software and Services

Contact VAW for free application engineering and product selection support services, or use our COMSIL® acoustic analysis and selection software:

- Most advanced HVAC acoustic algorithms in the noise control market
- Modern, user friendly interface
- Drag'n'Drop icon based analysis grid
- Wide variety of noise control products

Software inquires: comsil@vawsystems.com

