Practical Application and Troubleshooting

Most common

- Vertical Ventilation Shafts
- RTU
- AHU

Special Application Notes

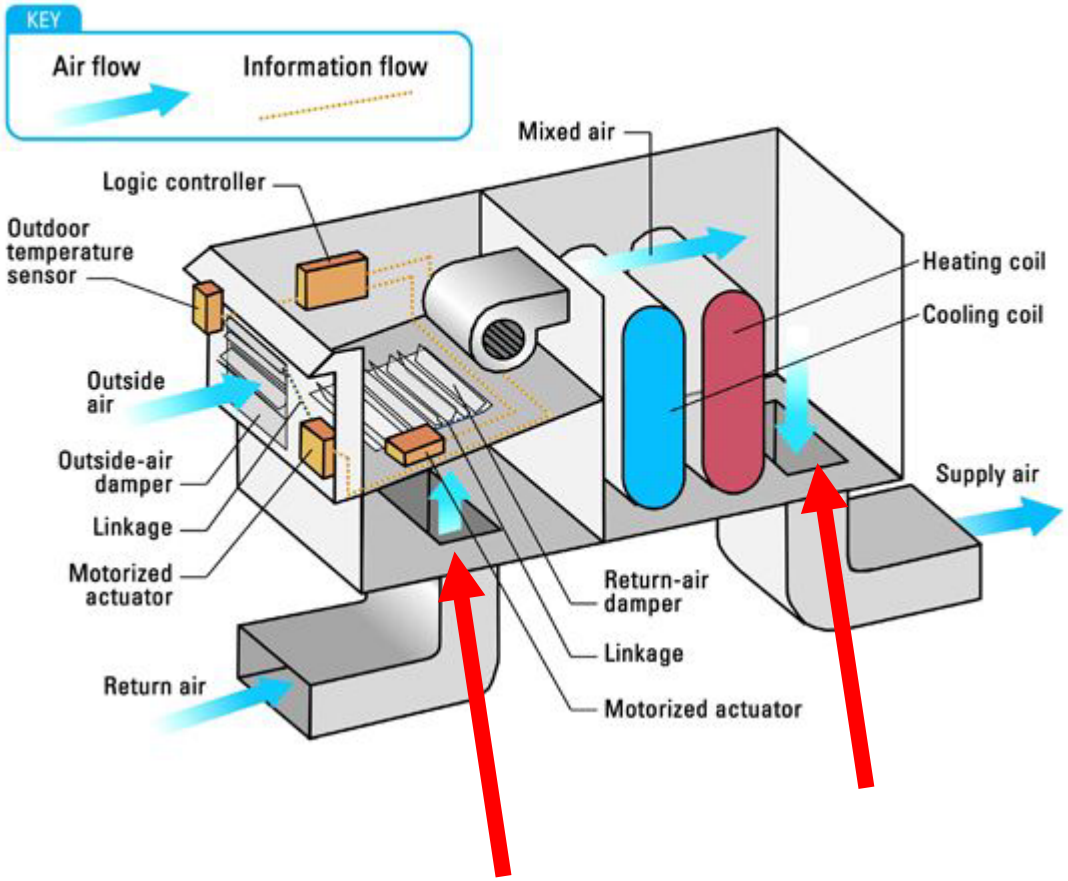
- Common Issues and Solutions
- Best Practices for Optimal Sealing
- Special Protections
- Sealant Capabilities

Common Issues and Solutions

Common Issues and Solutions
Technicians may encounter various challenges, such as sealant leakage (overspray) or equipment malfunctions. The manual outlines effective troubleshooting steps for each potential issue.

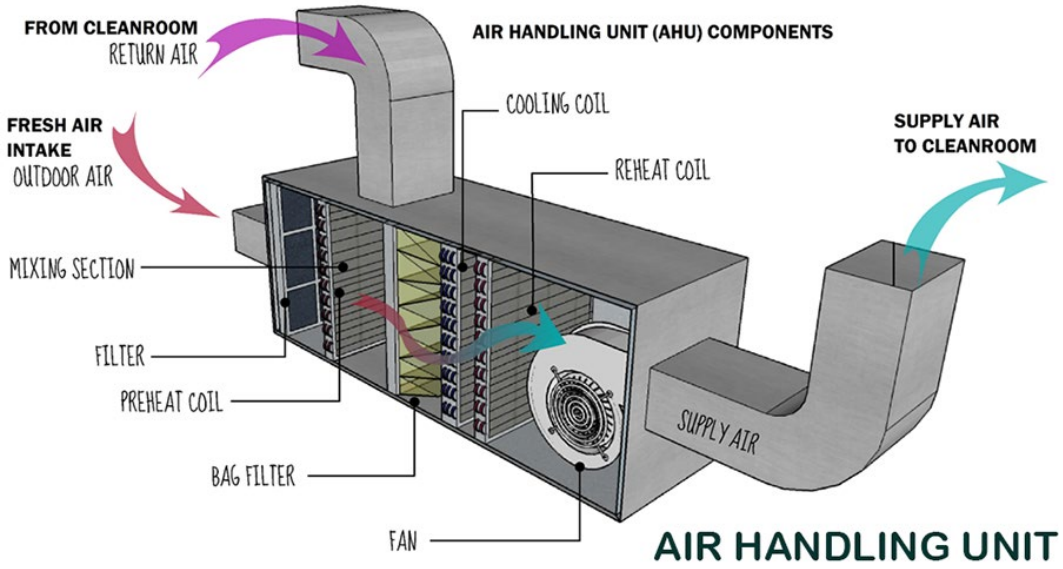
Most Common RTU

- If accessible place large block on rooftop just below the fan
- Locate supply ductwork below for equipment hook up
- If not accessible on the rooftop locate supply ductwork below for equipment hook up and large block



Most Common AHU

- Locate supply ductwork for large block and equipment hook up



Best Practices for Optimal Sealing

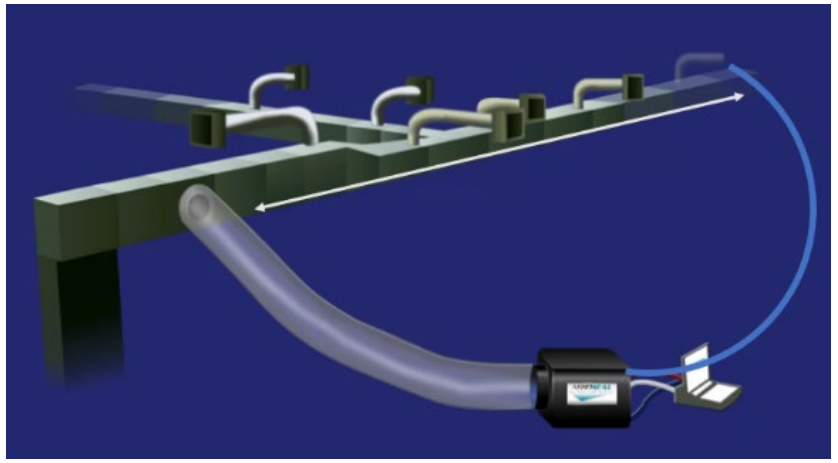
1. **Thorough preparation before the sealing process.**
2. **Continuous monitoring during sealing to address any issues promptly.** Overspray mitigation steps
3. **A final post-sealing inspection to ensure complete and effective duct sealing.**

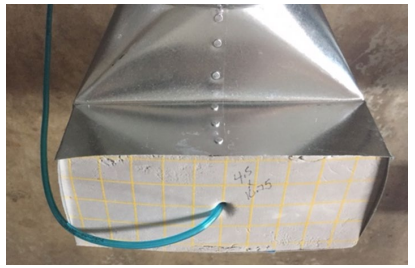
BLUE TUBE PLACEMENT

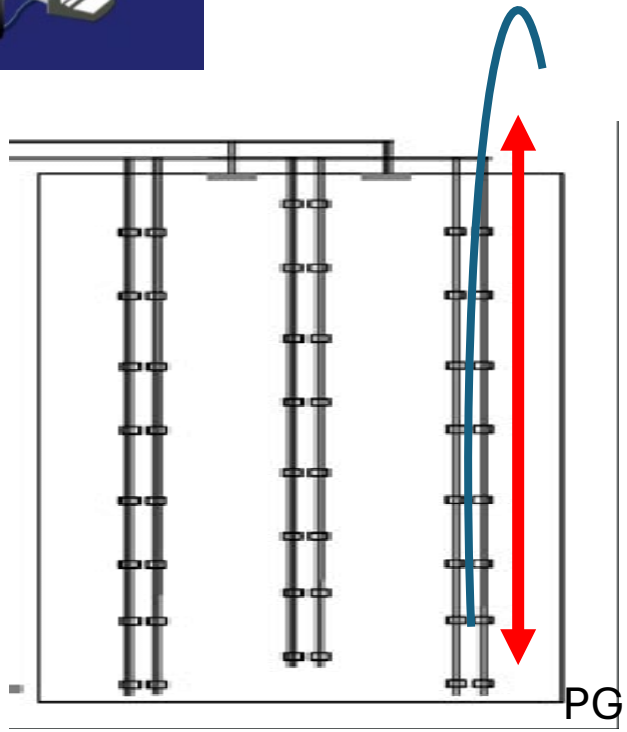
- **IN ORDER TO ACCURATELY MEASURE DUCT PRESSURE AND CORRASPONDING LEAKAGE, PLACE THE END OF THE BLUE TUBE AS FAR AS POSSBLE FROM THE INJECTION POINT(S)**

- **IF AN EXTERNAL PATHWAY DOES NOT EXIST** (IE: VERTICAL VENT SHAFTS) **– RUN THE BLUE TUBE THROUGH THE INJECTION POINT AND DROP TUBING DOWN INTO THE LOWEST POINT IN THE DUCT AS POSSIBLE**

- **THERE IS NO LENGTH LIMIT ON MANOMETER TUBING – YOU CAN ADD LENGTHS OF TUBING USING THE WHITE BARBED FITTINGS TO EXTEND REACH**



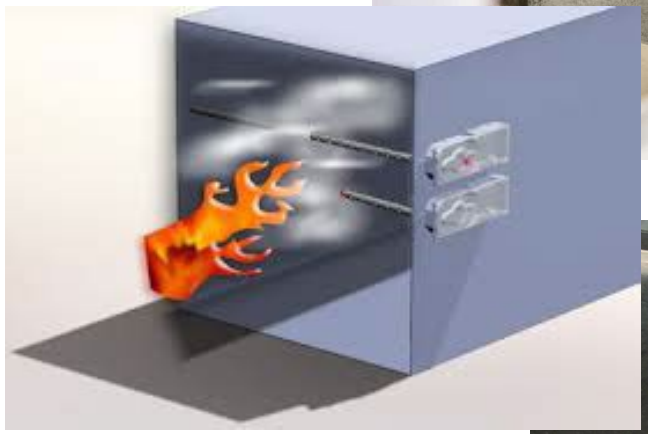


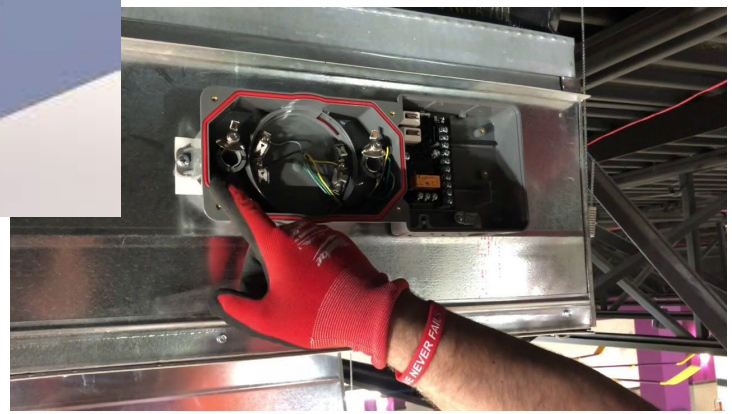


ISOLATION AND PROTECTION

VAV REHEAT COILS

DUCT SMOKE DETECTORS





ISOLATION AND PROTECTION

FIRE/SMOKE DAMPERS

AIRFLOW DAMPERS

LT-DUCT SEALANT

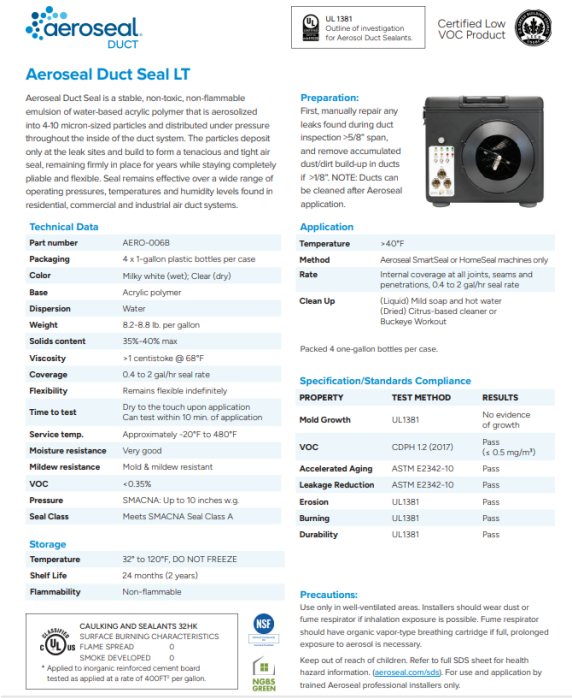
Acrylic-polymer

- Safe/Non-Toxic (very low VOC)
- Water Soluble in liquid state
- Store between 32F – 120F
- Mold & Mildew resistant

  (has anti-microbial properties)
- Tested/Warranty for 10 years
- Conservative Precautions

  When aerosolized
- SDS sheet can be accessed at

  www.aeroseal.com/sds



aeroseal DUCT

UL 1381 Outline of investigation for Aerosol Duct Sealants.

Certified Low VOC Product

Aeroseal Duct Seal LT

Aeroseal Duct Seal is a stable, non-toxic, non-flammable emulsion of water-based acrylic polymer that is aerosolized into 4-10 micron-sized particles and distributed under pressure throughout the inside of the duct system. The particles deposit only at the leak sites and build to form a tenacious and tight air seal, remaining firmly in place for years while staying completely pliable and flexible. Seal remains effective over a wide range of operating pressures, temperatures and humidity levels found in residential, commercial and industrial air duct systems.

Technical Data

Part number	AERO-006B
Packaging	4 x 1-gallon plastic bottles per case
Color	Milky white (wet); Clear (dry)
Base	Acrylic polymer
Dispersion	Water
Weight	8.2-8.8 lb. per gallon
Solids content	35%-40% max
Viscosity	>1 centistoke @ 68°F
Coverage	0.4 to 2 gal/hr seal rate
Flexibility	Remains flexible indefinitely
Time to test	Dry to the touch upon application Can test within 10 min. of application
Service temp.	Approximately -20°F to 480°F
Moisture resistance	Very good
Mildew resistance	Mold & mildew resistant
VOC	<0.35%
Pressure	SMACNA: Up to 10 inches w.g.
Seal Class	Meets SMACNA Seal Class A

Storage

Temperature	32° to 120°F, DO NOT FREEZE
Shelf Life	24 months (2 years)
Flammability	Non-flammable

CAULKING AND SEALANTS 32HK
SURFACE BURNING CHARACTERISTICS
FLAME SPREAD 0
SMOKE DEVELOPED 0
* Applied to inorganic reinforced cement board tested as applied at a rate of 400FT² per gallon.

Preparation:

First, manually repair any leaks found during duct inspection >5/8" span, and remove accumulated dust/dirt build-up in ducts if >1/8". NOTE: Ducts can be cleaned after Aeroseal application.

Application

Temperature	>40°F
Method	Aeroseal SmartSeal or HomeSeal machines only
Rate	Internal coverage at all joints, seams and penetrations, 0.4 to 2 gal/hr seal rate
Clean Up	(Liquid) Mild soap and hot water (Dried) Citrus-based cleaner or Buckeye Workout

Packed 4 one-gallon bottles per case.

Specification/Standards Compliance

PROPERTY	TEST METHOD	RESULTS
Mold Growth	UL1381	No evidence of growth
VOC	CDPH 1.2 (2017)	Pass (≤ 0.5 mg/m³)
Accelerated Aging	ASTM E2342-10	Pass
Leakage Reduction	ASTM E2342-10	Pass
Erosion	UL1381	Pass
Burning	UL1381	Pass
Durability	UL1381	Pass

Precautions:

Use only in well-ventilated areas. Installers should wear dust or fume respirator if inhalation exposure is possible. Fume respirator should have organic vapor-type breathing cartridge if full, prolonged exposure to aerosol is necessary.

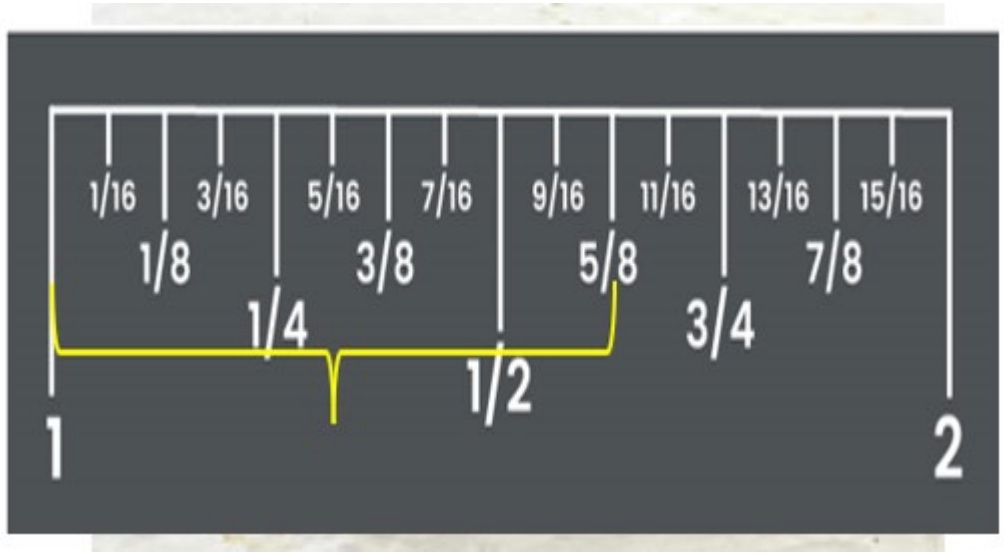
Keep out of reach of children. Refer to full SDS sheet for health hazard information. (aeroseal.com/sds). For use and application by trained Aeroseal professional installers only.

DSLT- Has undergone UV testing and passed ASTM standard

AIRBORNE SEALANT CAPABILITIES

SEALS GAPS UP TO 5/8” IN SIZE

THE AVERAGE PARTICLE SIZE IS 4-10 MICRONS



VERTICAL EXHAUST/VENTILATION SHAFTS

Optimal Injection:

Seal from the Top down – Utilize Gravity to assist in the flow of sealant.