

The Conductive Saddle Vent® System Designed for use in Hazardous Locations



The Conductive Saddle Vent® System is supplied with our explosion-proof & pneumatic blower kits or it can be purchased separately to upgrade your current ventilation equipment.



The Saddle Vent® Safety Improvements

The original Saddle Vent® was constructed of standard polyethylene which carries the potential of static electricity build-up on its surface. Static electricity is a source of ignition for fire and explosions. Air Systems developed an improved Saddle Vent® to safely remove potential static electrical charges from the ventilation system. The use of conductive polyethylene to construct the Saddle Vent®, and conductive ventilation duct, now provides the safest possible confined space ventilation procedure available.

The fully Conductive Saddle Vent® removes static electricity from the entire ventilation system when installed properly.

Patents:

United States Patents	#6,843,274
	#7,467,645
	#7,992,593 B2
Canadian Patents	#2,561,299
	#2,436,809
China Patent	ZL200480017833.3
Hong Kong Patent	HK1094023
European Patents	#1491695
Australian Patent	2004 202394

The Conductive Saddle Vent® System Set Up Procedure

Step 1) Select an electric explosion-proof or pneumatic 8" blower with an installed metal grounding lug.

Step 2) Read and follow recommended work procedures found in ANSI/API 2015 and 2016 prior to entering a tank or confined space.

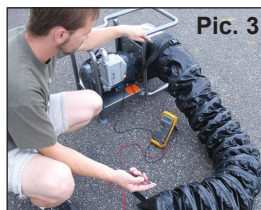
Step 3) Use only conductive 8" ducting supplied with a continuous metal helix and a static ground wire connected to the helix. The ground wire is connected to the metal ground lug on the blower (See Pic. 1).

Step 4) Attach the conductive elbow to the top of the black Conductive Saddle Vent® (see Pic. 2) and attach the ground wire from the duct to the elbow. If no elbow is used, an alternate ground lug is provided on the top of the Conductive Saddle Vent®.

Step 5) Attach conductive duct to the base of the Conductive Saddle Vent® and attach the ground wire to the Conductive Saddle Vent®.

Step 6) Test the ventilation set-up for conductivity prior to starting ventilation. Use a volt/ohm meter set to read ohms in "thousands". Attach a lead from the meter to the farthest end of the duct's grounding wire and the other lead touching the ground lug on the blower. A reading less than 500K ohms will assure a good ground is achieved to allow any static charges to flow toward the grounded source (See Pic. 3). Pneumatic blowers should have a ground wire run from the blower to a grounded source.

Step 7) The ventilation system is now ready for use. Place the duct and Conductive Saddle Vent® system in the manhole and secure with the universal mount. Follow the "Typical Saddle Vent® set-up procedure found in your blower's instruction manual.



Conductive Saddle Vent®

Model:	8"	12"
Length:	43.5"	51"
Width:	14.5"	21"
Depth:	3.5"	5.5"
Top O.D.:	8"	12"
Bottom O.D.:	8"	12"

- **Flow Loss:** Less than 1%
- **Construction:** Conductive Anti-Static Polyethylene
- **Temperature Rating:**
 - +220°F Melt Temp.
 - 158°F Brittleness Temp.

For work in hazardous locations, read and follow recommended work procedures found in ANSI/API 2015 and 2016 prior to entering a tank or confined space.

Saddle Vent® is a Registered Trademark of Air Systems International, Inc.

Saddle Vent® ordering information on page 59

