



Air QruiseTM
Electro-Ex

Air QruiseTM Electro-Ex

Explosion-proof mobility, advanced gas protection.

The Air QruiseTM Electro-Ex is an electric vehicle that increases safety in Immediately Dangerous to Life or Health (IDLH) atmospheres, where toxic and flammable gases increase the risk of explosion. The Electro-Ex combines explosion-proof mobility with breathing air delivery and gas monitoring systems, allowing personnel to safely work and transit through hazardous environments.

Safety and Productivity. Delivered.

The ideal solution for mobility in toxic and flammable environments.

The Air Qruise™ Electro-Ex is a battery-powered vehicle built to run in IDLH atmospheres. The two main concerns in an IDLH area are air toxicity and flammability, and the Air Qruise™ Electro-Ex was designed to tackle both challenges. This ATEX-certified explosion-proof vehicle allows for personnel transportation and evacuation in explosive atmospheres, caused by mixtures of air and flammable elements such as gases and vapors. In order to constantly monitor atmospheric conditions, the Electro-Ex is also equipped with gas detection. If toxic gas is detected, occupants can quickly protect themselves by donning rapid deployment air masks connected to United Safety's state-of-the-art Air Qruise™ technology, the world's only Vehicle Gas Protection System (VGPS). The Electro-Ex can be configured for many different applications.

Loading Bed: Sides are removable for easy access. With 1000 kg load capacity to transport equipment.

Air Qruise™: Breathing air management system provides 4 man-hours of air supply. Can be refilled in approximately 10 minutes.

Jump Seats: Optional SCBA seats allow personnel to ride fully equipped inside IDLH area.

AC Motors: Electronic torque control allows operation in rough terrain, and significant grades. It is a silent and zero pollution electric motor.



Tow-Ball: 3000 kg towing capacity.

All-Terrain Tires: Facilitates operation in rough terrain, including sand, snow or ice.



Explosion-Proof Tail and Headlights: Allow for night-time operations.

Explosion-proof Certification: The vehicle possesses Category 2G ATEX certification intended for surface use in areas with potential presence of flammable gases.



Charging System: Charges the battery pack in 12 hours when completely drained. If half-drained, charge-time is 2 hours.

Battery Pack: Provides the power for the Electro-Ex, reaching a range of 100 km with a top speed of 35 kph.



Rapid-Deployment Air Masks: Connected by air-line to the Air Qruise™, so occupants can breathe from the larger air supply while traveling in the vehicle.

High Pressure Air Gauge: Allows monitoring of the breathing air supply.

Air Sample Port: Captures air from the exterior of the vehicle for gas detection sampling.

Dashboard Panel: Displays indicators such as Power and High Temperature Shutdown, and controls such as Accelerator and Brake, Forward and Reverse gear and Light Switch.

Portable gas detector: Warns occupants of toxic gas presence.

Seats: Covered with anti-static material to prevent sparks.

Applications

The Electro-Ex can be used in gas, chemical and petrochemical plants, Oil and Gas upstream facilities and many other sectors with potential IDLH areas.

It is ideal to transport equipment for daily operations and maintenance, carry plant operators and supervisors for routine inspections and move field personnel or medical responders to remote work sites.

Benefits

- ATEX certification ensures vehicle is explosion-proof, thus safe to operate in potentially flammable environments.
- Combination of breathing air, gas detection and explosion proof capabilities make it the ideal vehicle for protection of personnel in IDLH environments.
- 100 km driving range with a top speed of 35 kph allows quick reaction to emergency situations.
- Reduce your facility's carbon footprint with a non-polluting vehicle.
- The vehicle configuration can be customized to cater to your site-specific needs.
- Minimize time to safely transfer workforce and equipment, and allow inspection personnel to cover more ground in less time.
- Reduce maintenance and lost tool time, and increase overall efficiency of the plant.

Safety and Productivity. Delivered.

Air Quirse™ Electro is a trademark protected by United Safety.



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