

REVOLUTIONIZING SAFETY

with Firefighter Air Replenishment Systems



Photos ©JCI

Firefighter Air Replenishment Systems (FARS) are permanently installed air standpipe systems that provide firefighters with a reliable source of breathable air during emergencies in large commercial and multifamily buildings. By strategically placing refill stations throughout a structure, FARS enables quick replenishment of self-contained breathing apparatus (SCBA), reducing health risks and enabling firefighters to focus on their critical mission of saving lives and protecting property assets.

Understanding FARS Requirements

Included in the International Fire Code Appendix L, the adoption of FARS is rapidly expanding across municipalities in the United States. Authorities Having Jurisdiction (AHJ) often include additional regulations beyond the IFC.

Buildings meeting any of the following criteria may require a FARS installation.

- New construction
- Five or more stories in height (including floors below grade)
- Two or more floors below grade
- 500,000 square feet or more

Always consult with the site's local fire department for specific requirements.

Essential FARS Features



Exterior Mobile Air Connection (EMAC) Panel

Fire service provides continuous supply of breathable air with Mobile Air Unit truck



Air Monitoring System

System control panel located inside building ensures air is safe for human respiration and free of contaminants



SCBA Refill Stations

Air supply access panels are placed throughout the building so firefighters can refill air tanks rapidly

Optional System Components



Air Storage System

Provides a reserve of breathable air during prolonged firefighting operations or when Mobile Air Unit trucks are unavailable



Remote EMAC Panel

Used when building exteriors do not provide a suitable surface for EMAC panel installation



Air Cylinder Fill Panel (Rupture Containment)

Provides filled and charged SCBAs in the event a firefighter's air tank fails



The TDIndustries Difference

TDIndustries is a leader in Firefighter Air Replenishment Systems. As a certified and licensed contractor, TD completed the first FARS installation in Texas in 2015 and has since successfully executed dozens of installations throughout the state. Our vast experience – and partnership with Johnson Controls, a premier FARS manufacturer – positions us as the go-to expert for your project.

- Dedicated Process Piping team
- In-house UHP pipe fabrication and installation
- Advanced orbital welding capabilities
- Med-gas certified technicians
- Comprehensive building life-cycle solutions

Leading the Way in FARS Installations

TDIndustries was contracted to complete the FARS installation on Ryan Tower at Legacy West. This 22-story 409,000 square-foot Class AA office tower features an 8-story parking garage, floor-to-ceiling windows, a conference center, state-of-the-art fitness center, grab-n-go market, café, coffee bar and tenant lounge. This FARS installation included an Exterior Mobile Air Connection (EMAC) Panel, Air Monitoring System, Air Storage System, 22 SCBA Refill Stations and a Booster Pump to ensure sufficient air pressure throughout the building.





FARS Early Planning and Installation Checklist

Incorporating FARS into the building design and pre-construction phase enables project teams to collaborate effectively and avoid scope changes and unforeseen costs arising from late-stage additions.

- ☐ Consult with AHJs to assess building requirements and FARS code compliance
- ☐ Engage a certified and licensed FARS Installer during the planning phase
- ☐ Design FARS integration with electrical and other life safety systems
- ☐ Determine locations for EMAC Panel or Air Storage System, Air Monitoring System, Air Fill Stations and any other optional components
- ☐ Develop detailed FARS installation plans and schematics
- ☐ Obtain necessary permits and approvals through the site's fire department and AHJs
- ☐ Procure FARS components and materials
- ☐ Install FARS components along with orbital welded UHP piping to prevent system failures
- ☐ Secure FARS manufacturer testing and system certification
- ☐ Schedule regular inspections and system maintenance

**Contact our FARS Team at 800-864-7717
for help with your next project.**