Salient Characteristics of 6,000-Gallon Fuel Dispensing System

We are requesting to purchase a 6,000-gallon self-contained fuel dispensing system to support Aerospace Ground Equipment (AGE) operations. This system provides a safe, robust, and compliant solution for storing and dispensing AVGAS and Jet-A fuel directly on the flight line. Its purpose is to establish a centralized, static refueling point for AGE assets, increasing operational efficiency by reducing reliance on mobile fuel trucks and minimizing aircraft servicing times.

The system is engineered for safety and durability in a demanding airfield environment. It is built to the UL 2085 "Fireguard" standard, meaning it is a fire-protected, bullet-resistant, and impact-resistant double-wall tank. Integrated safety features include emergency venting, overfill prevention with a high-level shut-off valve, and an interstitial leak gauge to ensure containment integrity. The lockable dispensing cabinet houses a complete, ready-to-use refueling package, including a pump, meter, hose reel, and nozzle, providing a secure and accountable method for dispensing fuel. This turnkey system is essential for maintaining a ready and responsive AGE fleet.

Below are the system specifications:

6,000-Gallon Fuel Dispensing System Specifications

TANK & CAPACITY

- System Type: Self-Contained Fuel Dispensing System for AVGAS / Jet-A
- Nominal Capacity: 6,000 Gallons
- Tank Construction: UL 2085 Labeled & Listed Fireguard (Protected, Insulated, Double-Wall Tank)
- Tank Material: Heavy-gauge steel (1/4" shells & 5/16" heads)
- Interior Lining: Epoxied for Jet-A fuel compatibility
- Exterior Finish: High-performance Envirolastic 940 DTM Polyaspartic Urethane
- Mounting: Tank mounted on integrated steel saddles

DISPENSING & METERING SYSTEM

- Pump: 3/4 HP FE Petro Pump Assembly with Anti-Syphon Valve

- Hose Assembly: 1" Hannay Hose Reel with 25 ft. of 1" Hose, Ball Stop, 1" Nozzle, Breakaway, and Swivel
- Metering: Total Control 682-15 Piston Meter with 10:1 Pulser for accurate fuel measurement
- Filtration: Cim-Tek 1.5" Filter Adapter with 1" Filter Element
- Dispensing Enclosure: UL Listed lockable cabinet (3'6" x 4'2" x 6'6") with a 3'x6' roll-up door

SAFETY & MONITORING FEATURES

- Overfill Prevention: high-level shut-off valve with ground-level fill and test mechanism
- Venting: Dual 8" emergency pressure/vacuum vents and a 3" stack vent extending 12 ft. above grade
- Fuel Level Monitoring: 2" 918 Clock Gauge with an integrated alarm
- Leak Detection: Interstitial (inter-wall) leak gauge for monitoring secondary containment
- Access: External ladder with a safety shield and a 24" manway for easy inner tank accessibility

ADDITIONAL FEATURES

- Decals: Includes a complete tank decal kit for proper fuel identification and warnings
- Warranty: 30-year tank warranty backed by the Steel Tank Institute