

**SPARTAN  
CONTROLS**

## CROSSFIRE

### 30 & 60 Gallon Instrument Air Compressor

An ultra-low power environmental solution for methane emission reduction.

The CROSSFIRE Instrument Air Compressor produces clean, dry, air to drive low-bleed pneumatic instrumentation. The change to air instead of sales gas will reduce emissions, increase the lifespan and reduce the maintenance requirement of instrumentation, at one third the cost of electronic instruments.

Instrument air compressors are ideal for remote well pad pressurization systems. The CROSSFIRE produces up to 1,200scfd at 40 PSI or 400scfd at 100 PSI to power all low-bleed instrumentation.

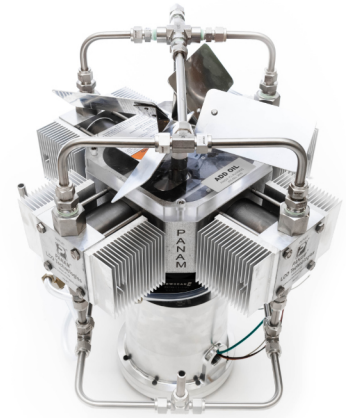
- Keep all existing low-bleed pneumatic instrumentation, but use clean, dry, air instead of produced or sales gas
- Drastically reduce maintenance on instruments – no plugging or cleaning instruments from dirty gas
- Stop wasting sales gas
- Eliminate vented methane from pneumatic instrumentation
- Environmentally friendly (no venting)
- Reduced installation costs
- Standard and scalable hardware platform
- Integrated pressure transmitter





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### Application

The CROSSFIRE Instrument Air Compressor is an ultra-low power device that is designed to produce over 1200 Standard Cubic Feet per Day of clean, dry compressed air at 40 PSI using solar power. An optional 100 PSI configuration is available.

The compressor package is a durable, energy-efficient solution that can be sustainably powered with solar energy, even in areas with limited sunlight. It can allow users to maintain their existing standard pneumatic instrumentation in areas where the goal or requirement is to achieve zero venting.

### CROSSFIRE Smart Controller

A modern, simple to use controller with an intuitive interface, easily programmed via serial communication or remotely with a smartphone via Bluetooth.

- High-performance 32-bit processor
- Compact, light-weight design
- Variable speed and logic control
- Extremely durable controller with critical protection schemes built-in

### Technical Specifications

Environment	0 to 60°C
Dimensions	64 ¾" x 27" x 23" (30gal) 75 ¼" x 30" x 30" (60gal)
Pressure Rating	175 PSIG safety relief
Air Delivery @ 40Psi	1200 SCFD (50 SCFH)
Air Delivery @ 100Psi	400 SCFD (16.5 SCFH)
Vessel Sizes	30gal, 60gal
Area Classification – Electrical Control Panel	Class 1 Division 2, Groups C&D, T4
Area Classification – Compressor	Class 1 Division 1, Groups C&D, T6
Power Requirements	24 VDC, 9.9 A
Mechanical Connection	1/2 in. Tube fitting

- Modbus communication, via RS-485 or ethernet, for remote monitoring and control via SCADA
- Time stamped status and non-volatile memory for saving event logs , perfect for carbon reduction programs
- 8 LED lights included for system troubleshooting
- Automatically maintains pressure with a variable speed motor using an integrated VFD
- Pre-engineered controller panels stocked at Spartan Controls