PRODUCT CATALOG

2025



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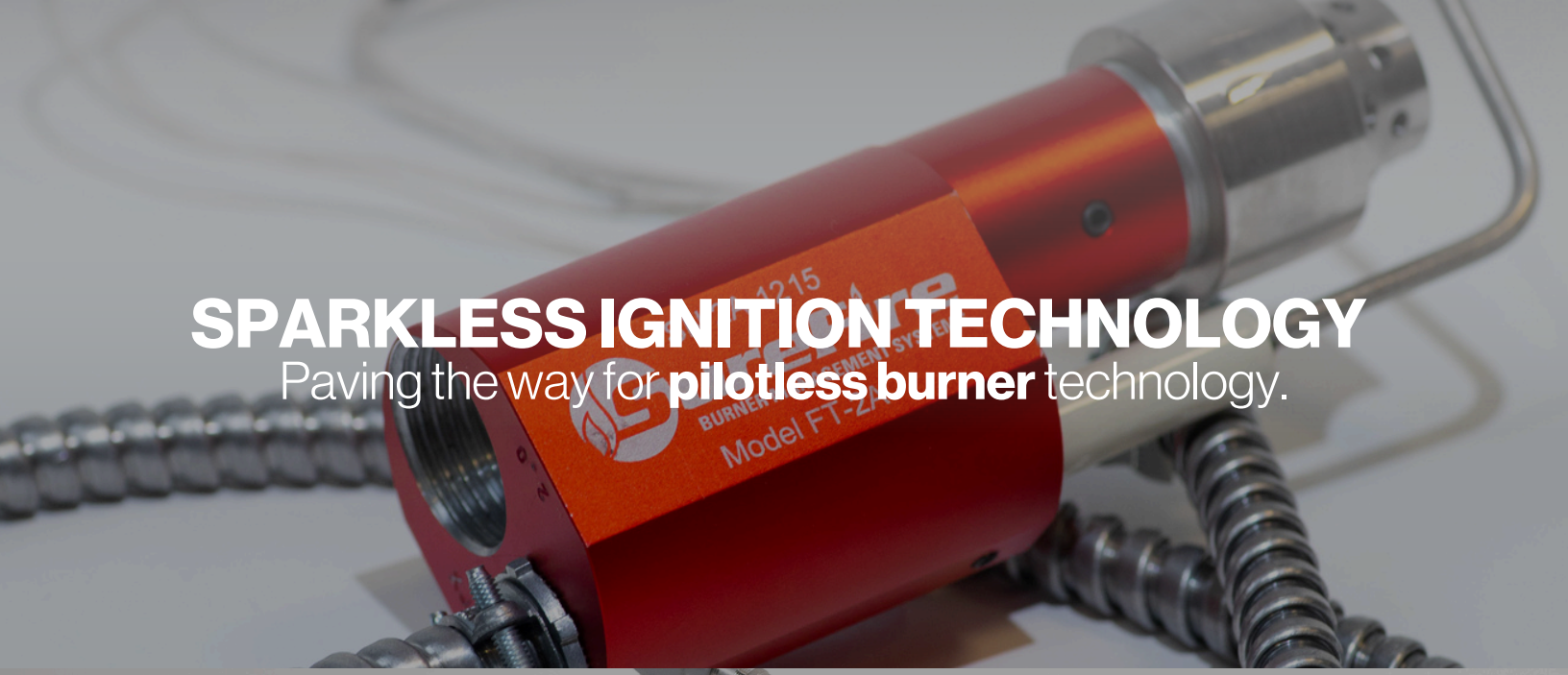
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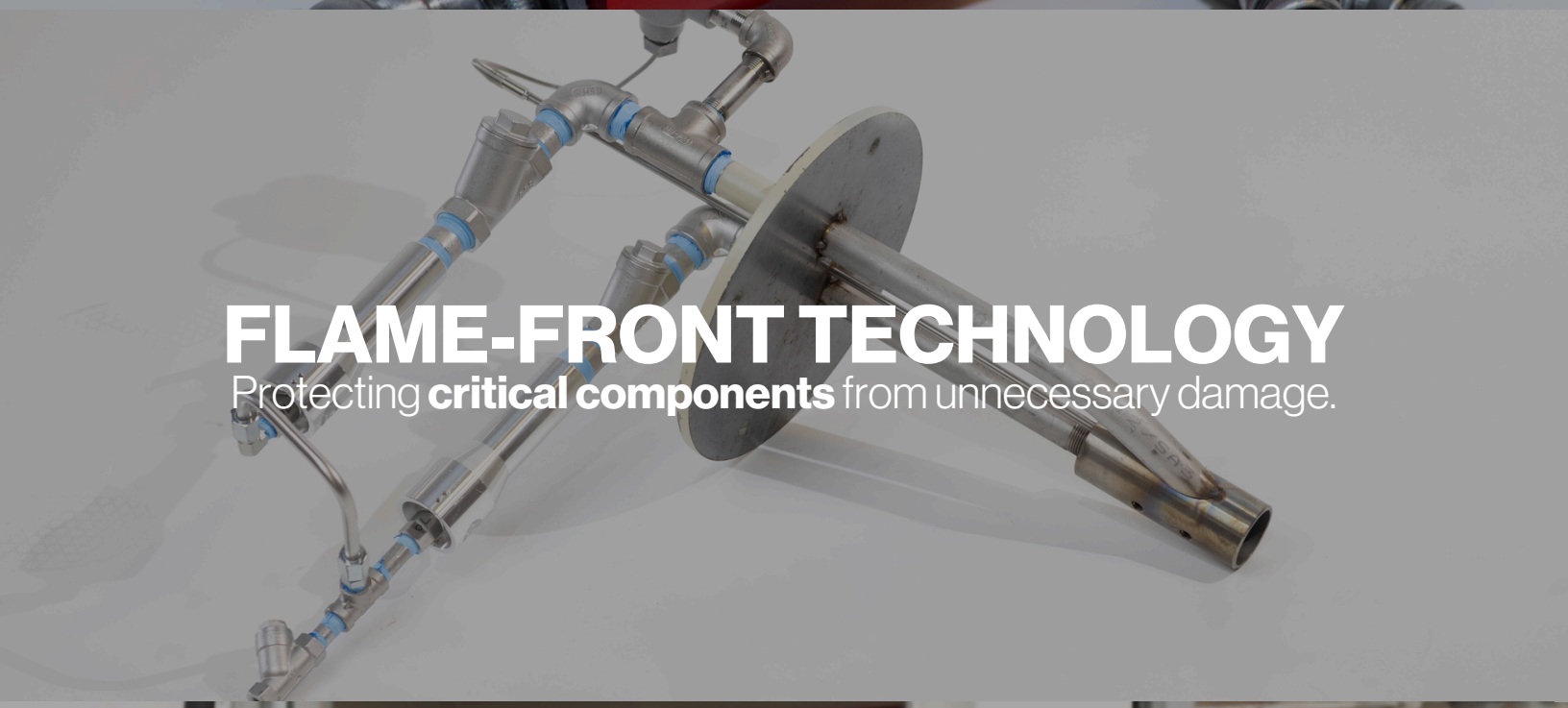
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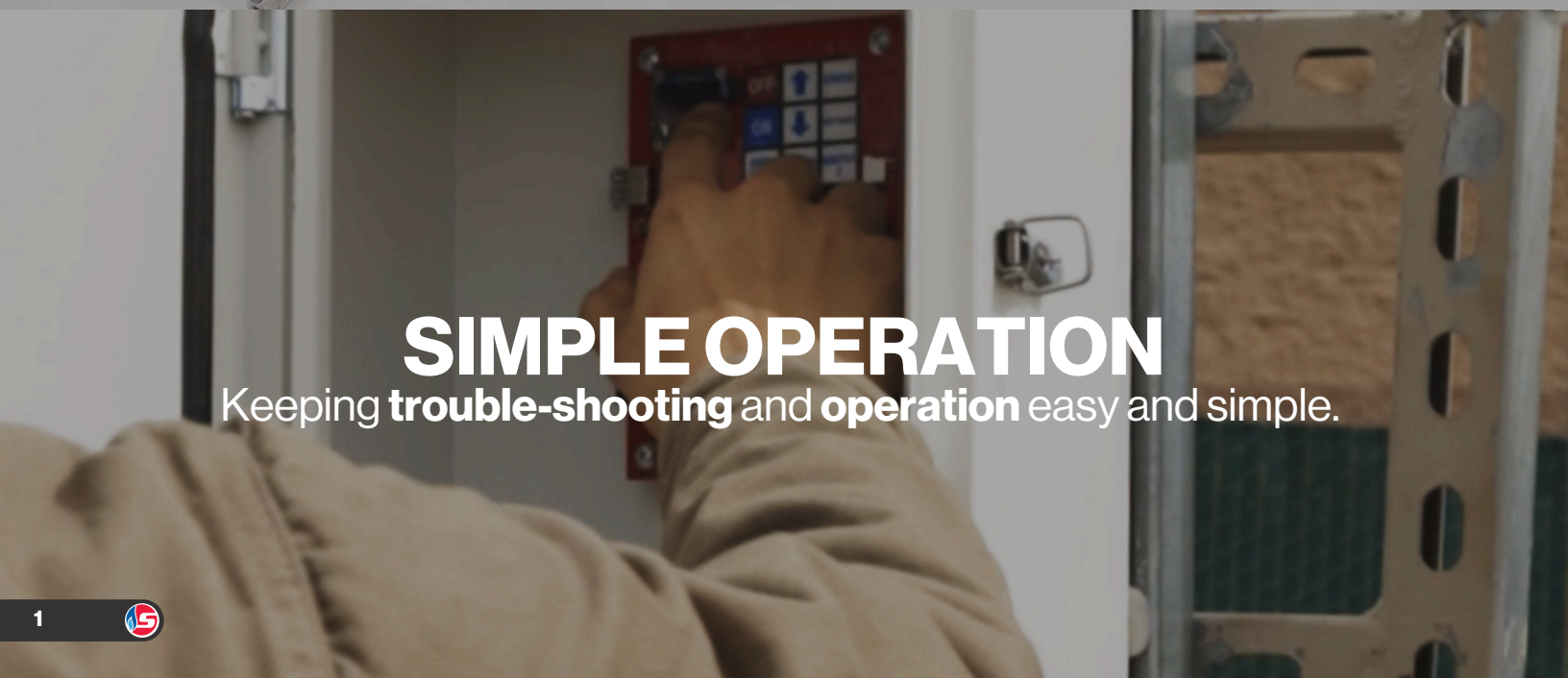
SPARKLESS IGNITION TECHNOLOGY

Paving the way for **pilotless burner** technology.



FLAME-FRONT TECHNOLOGY

Protecting **critical components** from unnecessary damage.



SIMPLE OPERATION

Keeping **trouble-shooting** and **operation** easy and simple.

BMS CONTROLLERS

SIMPLE OPERATION



Get to know the SureFire BMS controller.

SureFire offers multiple Burner Management Systems for natural draft burners up to 10 million BTU, as well as for flares and combustors. Engineered for reliability in the harshest conditions, these systems utilize **SureFire's Sparkless Ignition technology** to ensure the safe and reliable operation. From flare pilots to a 1.5mm BTU heater treater with remote monitoring, SureFire provides a Burner Management System for any process.

Key Features:

- **Easy Installation & Startup** – Simple wire termination and parameter setup.
- **Reliability** – Hot surface ignition, temperature control, and valve control.
- **Safety** – Integrated safety protocols to ensure personnel and equipment safety.
- **Indicators** – Displays for System ON/OFF, Battery Voltage, Status Codes, Flame Strength, and Audible and Visual feedback.
- **Industry Leading Three-Year Warranty**



SF-50

Pilot Maintainer for Firetube and Pit Flare Applications.

FEATURES:

- Igniter Flame Sensing
- Pilot Valve Control
- Integrates with multiple applications
- Digital Readout
- Run Status Output
- Data Logging



BMS-100

For combustor or flare applications with a continuous pilot and second-stage control.

FEATURES:

- Pilot Maintainer
- Thermocouple Flame Sensing
- Valve Control
- Standby/Shutdown Input
- Modbus RS485 (Read Only)*
- High-Temperature Thermocouple*
- 4-20 mA Input*
- Data Logging*



BMS-300

For naturally drafted heaters. Monitors target temperatures using an RTD circuit and controls the fuel train in either *pilotless* or piloted arrangement.

FEATURES:

- Temperature Control
- Flamerod
- Flamesensing
- Standby/Shutdown Input
- Modbus RS485 (Read Only)*
- Valve Control



BMS-350

For naturally drafted heaters. Monitors target temperatures using a thermocouple or RTD circuit. Controls the fuel train in either *pilotless* or piloted arrangement.

FEATURES:

- Multiple-Temperature Inputs
- T/C OR Flame Rod Flame Sensing
- Valve Control
- Standby/Shutdown Input
- Modbus RS485 (Read/Write)*

*Feature integrated in adder card

Intertek

CLASSI DIVISION 2 GROUPS C. D. T6
UL STD61010-1 • UL STD 61010-2-030
UL STD 121201:2017 Ed.9 • UL STD 121201(Ed.9)
BMS 300 & 350 are also NFPA87 a n d B149.3 COMPLIANT

SurefireBurner Management Systems
1910 Rustic Place
Farmington, New Mexico 87401
505.333.2878



SAVE LIVES

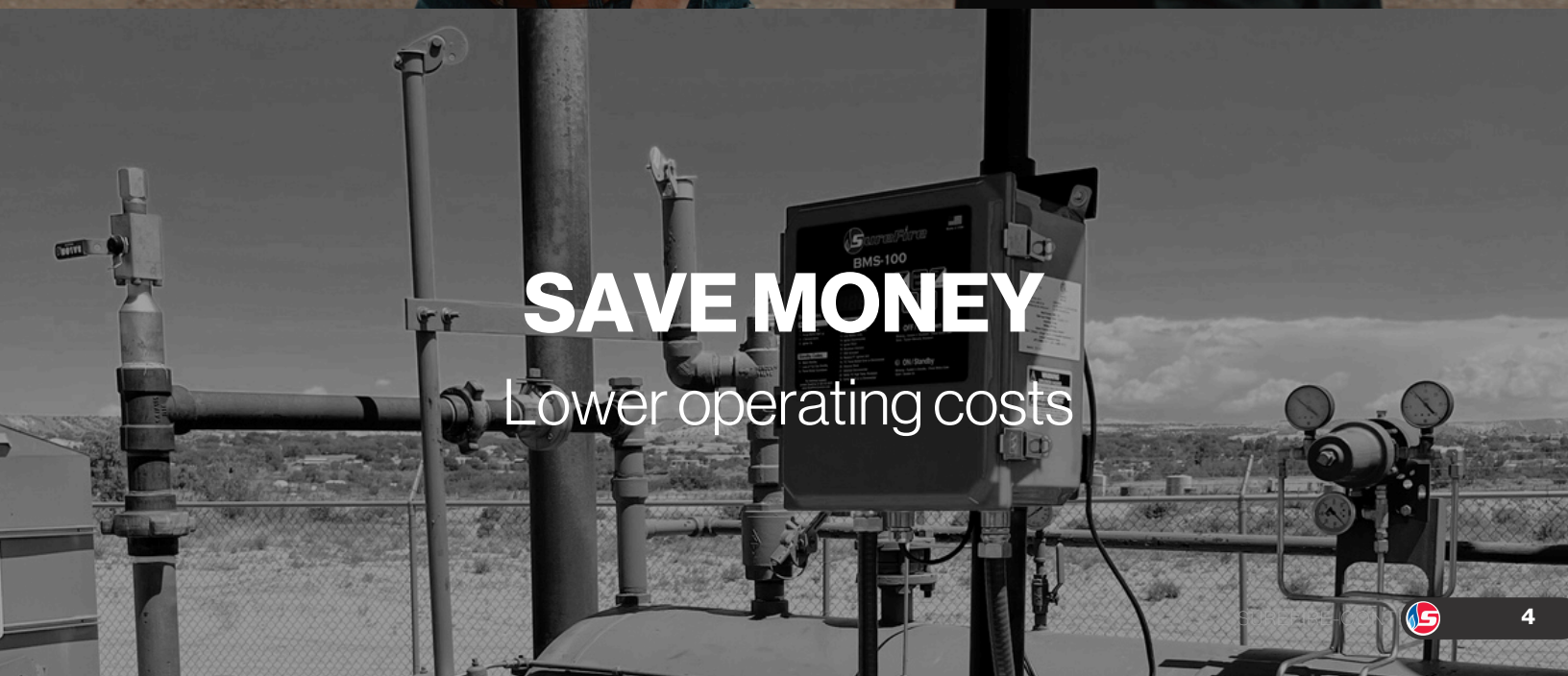
Increased safety protocols



REDUCE EMISSIONS

EPA COMPLIANT

& OOOO COMPLIANCE



SAVE MONEY

Lower operating costs

FT IGNITION UNITS

PILOTLESS BURNER ASSEMBLIES & PATENTED SPARKLESS TECHNOLOGY



NO ADJUSTMENT. NO CLEANING REQUIRED.

- True plug and play
- Time-saving simple installation
- Armored, flame resistant, conduit-ready wiring
- Ignition coil not required
- Compliant to API RP 12N flame arrestor testing
- Hot Surface Ignition

KEY FEATURES:

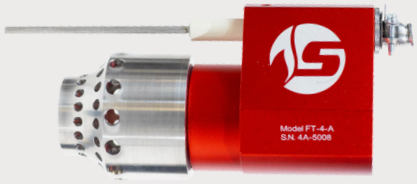
- SureFire Sparkless Ignition Technology
- Integrated Flame Sensor (Available in Two Configurations)
- Pilotless Burners for Firetube Applications
- Flame Front Technology for Flare and Combustor Applications

FT PILOTLESS IGNITION UNITS



FT-2 Pilotless Ignition Unit

- Inlet: 1 inch NPT
- Duty: Pilotless, direct ignition of main burner
- For use with 1 inch air/gas mixer @ 125,000 Btu/h
- Flame-sensing: Flame rod or Thermocouple



FT-4 Pilotless Ignition Unit

- Inlet: 2 inch NPT
- Duty: Pilotless, direct ignition of the main burner
- Compatible with 2 inch air/gas mixer @ 500,000 BTU/h
- Flame-sensing: Flame rod or Thermocouple
- Nozzle options for horizontal or vertical firetube arrangements.



FT-6 Pilotless Ignition Unit

- Inlet: 3 inch NPT
- Duty: Pilotless, direct ignition of the main burner
- Compatible with 3 inch air/gas mixer @ 1 mm BTU/h
- Flame-sensing: Flame rod or Thermocouple
- Nozzle options for horizontal or vertical firetube arrangements.



FT-8 Pilotless Ignition Unit

- Inlet: 4 inch NPT
- Duty: Pilotless, direct ignition of the main burner
- Compatible with 4 inch air/gas mixer @ 1.5 mm BTU/h
- Flame-sensing: Flame rod or Thermocouple
- Nozzle options for horizontal or vertical firetube arrangements.

FT PILOTED IGNITION UNITS

PATENTED TECHNOLOGY

The FTL-F flame-front technology removes critical components from the intense flare and combustor environment.

The FT-1 provides a reliable pilot burner for firetube applications rated over 1.5 million BTU/hr.





FTL-F-72, FTL-F-96 & FTL-F-200

- Flame-sensing with thermocouple
- Services Piloted Flares
- Gas Inlet: 1/4 inch NPT
- Pilot length variations are: 5ft, 7ft, and 17ft.



FTL-F-MINI

- Flame sensing with thermocouple
- Suitable for combustors and enclosed flares
- Gas inlet: 1/4 inch NPT
- Custom fitted assemblies to you applications.



FTL-F-30/ FTL-F-40

- Flame sensing with thermocouple
- Suitable for combustors and enclosed flares
- Gas inlet: 1/4 inch NPT



FT-1 Piloted Ignition Unit

- Inlet: 1/2 inch NPT
- Duty: Piloted
- Use with: Pilot venturi, #72 orifice

Over 1.5 million Btu/hr rating requires a pilot.

PARTS/ACCESSORIES



QUALITY PARTS

The following section contains a comprehensive list of all compatible parts and accessories designed to work seamlessly with the products featured in the previous catalog sections. These components ensure optimal performance, maintenance, and customization of your equipment.



12 VOLT ACTUATOR
Part #51901065

Features:

- Controls the main fuel gas to the main burner
- Factory programmed and pre-wired – no adjustments necessary
- 3-wire termination for easy installation



1" SOLENOID VALVE
Part #51900605 K

Features:

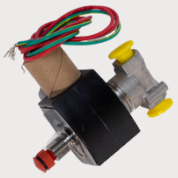
- Fail-closed device
- No adjustment necessary
- Simple termination and installation



2" SOLENOID VALVE
Part #51900608 K

Features:

- Fail-closed device
- No adjustment necessary
- Simple termination and installation



1/4" ASCO SOLENOID VALVE

Features:

- Fail-closed device
- No adjustment necessary
- Simple termination and installation

Additional Accessories

RTDs

Thermocouple

Slow Flow Valve

Pressure Switch

Pressure Transducer

Coalescing Filter

Air/Gas Mixers

Pressure Regulators

Voltage Converters

Service Parts

Flame Rod Replacement Kits

Flame-Sensing Thermocouple Replacement Kits

Overlay Replacement Kits

CCA Replacement Kit



VENTLESS FUEL TRAINS

MORE GAS THROUGH THE SALES LINE



ELECTRONIC CONTROL DEVICES

COMPATIBLE WITH ALL SUREFIRE BMS SYSTEMS



ELIMINATE VOC VENTING

PROTECTING AIR QUALITY AND ENSURING COMPLIANCE WITH ZERO-EMISSION SOLUTIONS

AIR COMPRESSORS

ELIMINATE METHANE EMISSIONS ON PNEUMATIC DEVICES



KEY FEATURES:

- Achieve DOE and EPA regulatory compliance.
- Low cost, long term solution.

COMPLIANCE WITH:

U.S. DEPARTMENT OF ENERGY

EPA

OOOO



ACP-100

- Enclosure
- 100 AH battery
- 200 watt solar panel
- 60 - 70 scf/d or less
- Solar charge controller
- Mounting stand
- 3 Gallon Storage Tank

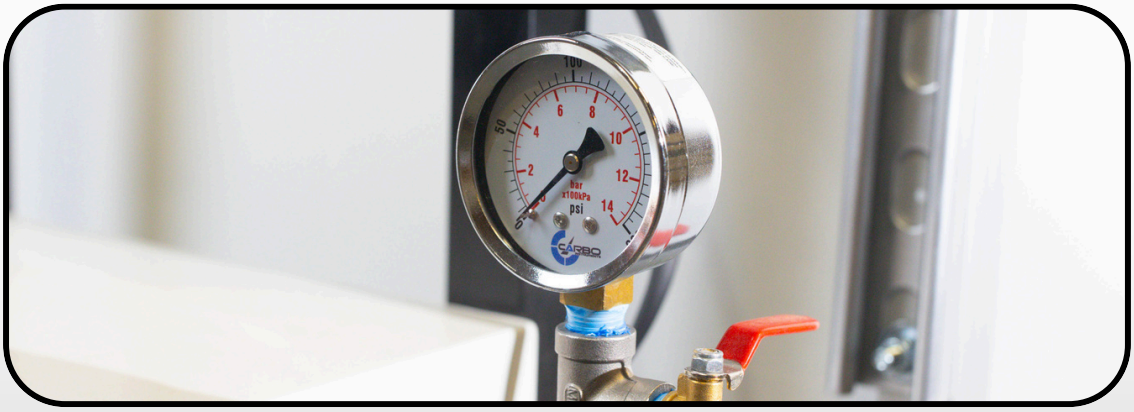


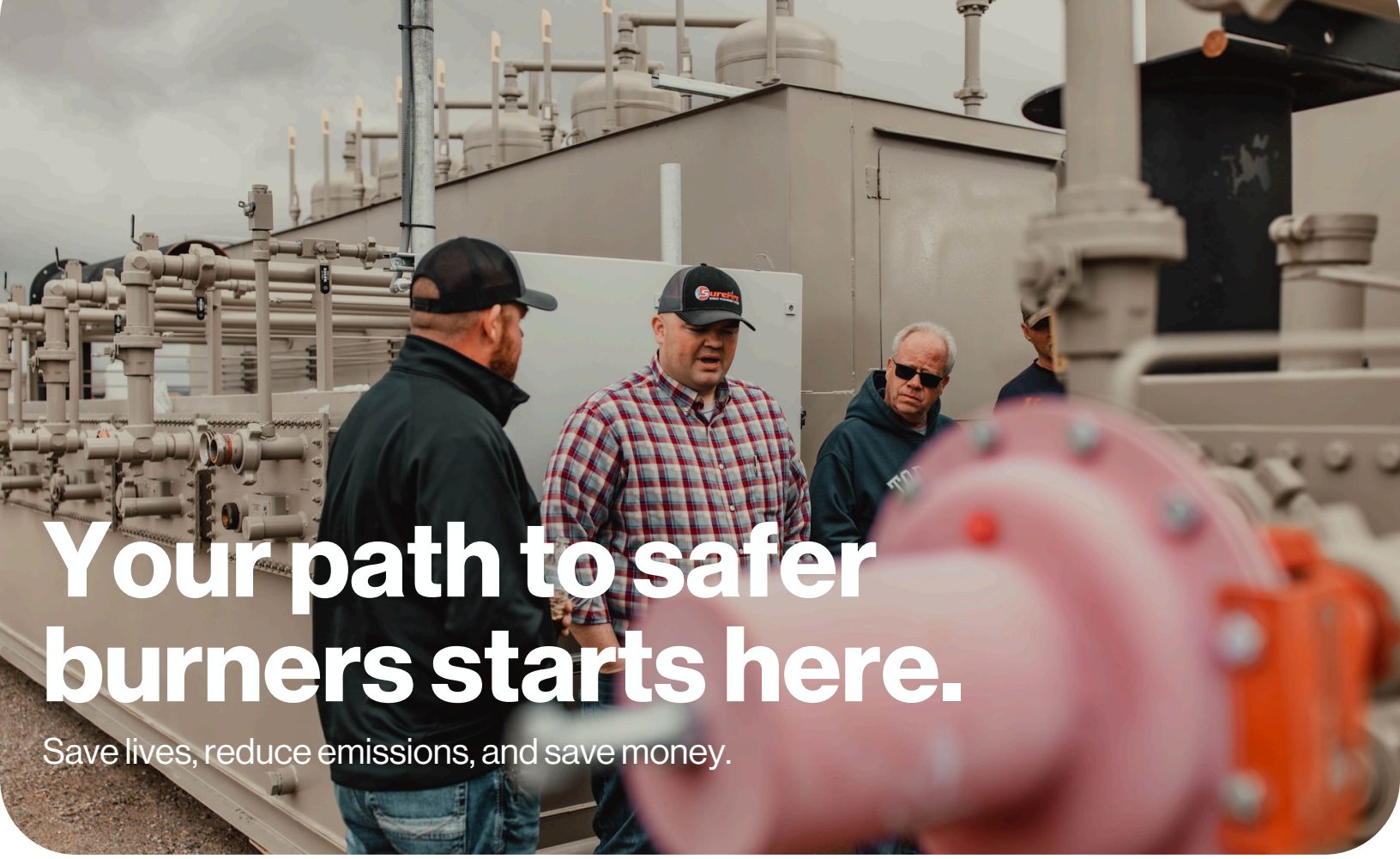
ACP-200

- Enclosure
- 200 AH battery
- 400 watt solar panel
- 90 - 100 scf/d or less
- 3 gallon storage tank
- Solar charge controller
- Mounting stand

AIR COMPRESSOR TECHNOLOGY

Replace pneumatic devices powered by natural gas with clean, efficient compressed air.





Your path to safer burners starts here.

Save lives, reduce emissions, and save money.

Contact **SureFire** Now!

New Mexico Office
1910 Rustic Place Farmington, NM 87401

Phone: (505) 333-2878

Email: Contact via website

Technical Support Hotline Phone:

(505) 333-2876

For more information or to reach out via email, please visit their Contact Us page.



24/7 CARE FOR OUR CLIENTS.




SureFire
BURNER MANAGEMENT SYSTEMS