Chentronics®
IGNITING INNOVATION

# WHAT WE DO BEST

## High Energy Ignition

### Why Choose High Energy Ignition Over High Tension

Traditional high tension ignition systems use high voltage transformers to create constant arcs across an open gap. These systems are prone to fouling from moisture and contaminants, struggle with liquid fuels, and require frequent igniter replacements in dual-fuel setups.

**Chentronics High Energy Ignition Systems** uses lower-voltage capacitor-stored energy to deliver powerful, precisely timed spark bursts. This design enables a self-cleaning igniter that resists contamination, supports multiple fuel types, and switches between liquid and gas fuels without hardware changes.

For critical combustion applications, Chentronics offers durability, efficiency, and fuel flexibility, avoiding unplanned outages and operational control.

### How It Works

| Energy Storage | Controlled Discharge | Self Cleaning |
|---|---|---|
| Low-voltage capacitors store energy between firings | Precisely timed high-energy spark bursts | Resists fouling; supports liquid and gas fuels. |

### Key Benefits

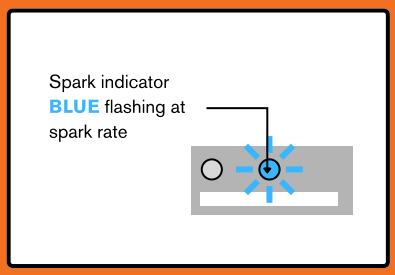
- **Real-Time Feedback:** Receive spark status updates via a blue light indicator or digital signals to your control room, depending on the exciter model.
- **Efficient Maintenance:** Get clear alerts when igniters get close to end of life, helping to prevent missed starts that cause costly unplanned outages.
- **Enhanced Troubleshooting:** Cut down time and effort for system maintenance and diagnostics.

**CHOOSE CHENTRONICS FOR RELIABLE PERFORMANCE AND CUTTING-EDGE TECHNOLOGY IN IGNITION SYSTEMS**

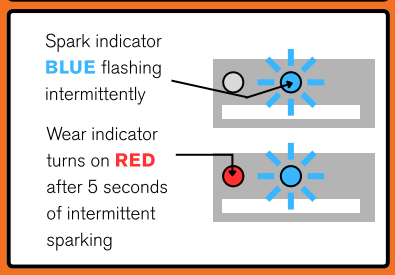
### Chentronics IgniteIQ™

Our high-energy ignition systems include our proprietary IgniteIQ™ circuit, allowing operators to prevent missed starts proactively.

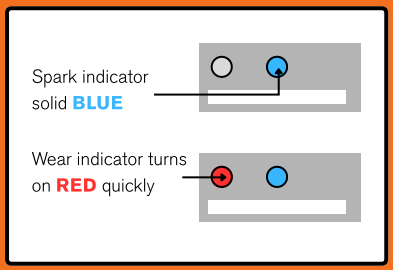
**NORMAL OPERATION**




**REPLACE IGNITER AS SOON AS POSSIBLE**




**IGNITER MUST BE REPLACED**

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## AVAILABLE IGNITION SYSTEMS

| SYSTEM MODEL | SureSpark® LO-2 | SureSpark® LO-4 | SureSpark® LO-6 | SureSpark® MTE | SureSpark® RF-20 | SmartSpark® |
|---|---|---|---|---|---|---|
| Suitable Fuels (G-Gas, LO-LightOils, D-Diesel, BD-Bio Diesel, RF-Residual Fuels) | G | G/LO/D | G/LO/D | G/LO/D/BD | G/LO/D/BD/RF | G/LO/D |
| IgniteIQ™ | ✓ | ✓ | ✓ | ✓ | ✓ | N/A |
| Moisture Seal Available | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Solid-State Electronics | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| System Input Power | 100-240 VAC 50/60 Hz | 100-240 VAC 50/60 Hz | 100-240 VAC 50/60 Hz | 11-28 VDC | 100-240 VAC 50/60 Hz | 100-240 VAC 50/60 Hz |
| Stored Energy (Joules) | 12 | 12 | 12 | 2 | 12 | 4 |
| Spark Rate (nominal SPS) | 2 | 4 | 6 | 5 | 20 | 15 |
| Typical Exciter Size | 11 x 7 x 7 in. (279.4 x 177.8 x 177.8 mm) | 11 x 7 x 7 in. (279.4 x 177.8 x 177.8 mm) | 11 x 7 x 7 in. (279.4 x 177.8 x 177.8 mm) | 4 x 6 x 3 in. (101.6 x 152.4 x 76.2 mm) | 12 x 12 x 7 in. (304.8 x 304.8 x 177.8 mm) | 4.6 x 6.4 in. plus output connectors (116.84 x 162.56 mm) |
| Igniter Temperature Rating | Up to 1,832°F (1,000°C) | Up to 1,832°F (1,000°C) | Up to 1,832°F (1,000°C) | Up to 1,832°F (1,000°C) | Up to 1,832°F (1,000°C) | Up to 1,832°F (1,000°C) |
| Exciter Temperature Range | -13 to 140°F (-25 to 60°C) | -13 to 185°F (-25 to 85°C) | -13 to 167°F (-25 to 75°C) | -40 to 185°F (-40 to 85°C) | -13 to 167°F (-25 to 75°C) | -40 to 185°F (-40 to 85°C) |

**** Specifications subject to change at any time.***

## Why Chentronics?

Chentronics, a Koch Engineered Solutions company, brings decades of combustion monitoring and flame detection expertise to every product we design. Our commitment to engineering excellence, rigorous testing, and customer-focused innovation ensures solutions you can trust to perform reliably in real-world industrial environments.

**Explore how Chentronics' expertise can support your ignition system needs.**