TruFire™ High Energy Pilot

The Quality You Need, The Performance You Expect

As a global leader in developing state-of-the-art combustion technologies and environmental solutions, John Zink Hamworthy Combustion understands your single pilot and ignition needs. Our TruFire electric ignition pilots are designed to provide safe and reliable performance for thermal oxidizer and burner operation.

Extensive field experience and thorough testing at John Zink Hamworthy Combustion’s Research, Development and Test Center proved our TruFire pilots operate in the most severe combustion applications – even under water.

TruFire Pilot Features
- Uses compressed air to provide 100% premixed fuel for improved stability in high-draft and pressurized applications
- Safely retractable and removable from the burner even during burner operation (manual and pneumatic retraction)
- Robust, stable flame ensures burner ignition and flame detection
- Stainless steel construction to minimize corrosion and maximize service temperature

High Energy Ignition Features
- Powerful capacitance discharge spark provides more reliable ignition than a conventional spark plug igniter
- High Energy probe is not affected by moisture and will spark even when completely immersed in water
- A fixed / non-adjustable spark gap ensures proper installation and reliable spark

UltraFlex High-Heat Release Option
- Wide range of heat release for unit startup and refractory dry out applications
- Sightport / scanner option for an all-in-one design with ignition and flame confirmation

TruFire electric ignition pilots have been proven in more than 100 installations, including rigorous testing at the John Zink Hamworthy Combustion Development and Test Center, the largest and most advanced testing complex of its kind.

For more information, visit www.johnzinkhamworthy.com/TruFire
Specifications and Options

### Electrical Specifications

**Input voltage options:**
- 120 VAC / 50-60 HZ / Single Phase
- 240 VAC / 50-60 HZ / Single Phase
- 24 VDC

**Amperage requirement:**
- 0.35 AMPS - AC
- 2 AMPS - DC

**Spark rate:**
- 2 sparks per second

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### Pilot Type

<table>
<thead>
<tr>
<th>Pilot Type</th>
<th>Min. Guide Pipe Size, Sch 80 or 40</th>
<th>Heat Release Btu/hr</th>
<th>Compressed Air Required, SCFM at 10 psig</th>
<th>Retractable with Isolation Valve</th>
<th>Scanner Option</th>
<th>Sight Port Option</th>
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</thead>
<tbody>
<tr>
<td>TruFire 1</td>
<td>1-1/2”</td>
<td>40,000 - 50,000</td>
<td>8</td>
<td>Yes</td>
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<td>No</td>
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<tr>
<td>TruFire 1.5</td>
<td>2”</td>
<td>100,000 - 200,000</td>
<td>35</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
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<tr>
<td>TruFire 2</td>
<td>3”</td>
<td>200,000 - 500,000</td>
<td>70</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
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<tr>
<td>TruFire UltraFlex</td>
<td>3”</td>
<td>200,000 - 13,500,000</td>
<td>70⁴</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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</tbody>
</table>

1. Manual retraction is standard, pneumatic retraction is also available. Isolation valve must be installed to safely remove pilot during pressurized burner operation.
2. Flame ionization rod is available for all models.
3. Sight port must be removed to install a scanner or a flame ionization rod.
4. Not 100% premix.