We designed the ST-2-FF to meet the increasing needs of industry, including:

• Reliable light off after exposure to moisture during furnace steam outs and humidity
• Dependable flame monitoring after exposure to moisture
• Robust ignition, flame detection, and stable operation over a wider range of operating conditions, pressures and fuels
• Compatibility with 2” x 4” pilot opening for easy retrofits
• Minimized footprint on burner front plate
• Low total installed costs of high energy ignition and flame sensing electronics

Why We Developed the ST-2-FF

Superior Performance In A Wider Range Of Conditions

Customers worldwide look to John Zink Hamworthy Combustion for innovative solutions they can count on. We’ve provided industry-leading products proven in thousands of installations worldwide. With the ST-2-FastFlame (ST-2-FF), we’ve leveraged that experience and expertise to design, develop and deliver robust ignition, flame detection, and stable operation over a wider range of operating conditions, pressures and fuels.

A Better Design

Years of experience and customer input helped us develop the most state-of-the-art pilot design in the industry.

• High energy igniter (HEI) and sealed flame rod assembly
• 1/2” diameter igniter for maximum durability
• Enclosed ignition channel and flame rod channel to keep out moisture and debris
• Upgraded premix venturi with a robust spud design
• Air door not required
• All stainless steel construction
• Single configuration for combustion air temperature from ambient up to 800˚F
• Retrofits into previous John Zink pilot mounting dimensions
• Compact, head-mounted electronics
  • High Energy Ignition (HEI) exciter and flame detection circuitry in the same enclosure
  • Able to spark and detect flame simultaneously
  • Relay contact for flame detection
  • Contacts for 10 VDC flame signal strength indication
  • LEDs for power, flame detection and HEI sparking
  • NEMA, 4/7, explosion proof electronics enclosure
  • Accepts 100-240 VAC 50/60 Hz

The industry's most advanced pilot design. That’s smart. That’s JZHC.
The ST-2-FF Pilot: Many Conditions, Many Fuels, Same Reliable Performance

High moisture environments. Wide firebox pressure swings. Varying fuel composition. Many pilots can’t reliably ignite and operate under such conditions. Our ST-2-FF Pilot was designed specifically to perform in these extreme environments. The ST-2-FF Pilot is compatible with a wide range of fuels – from pure propane to high hydrogen – without any adjustments. Reliable performance you can count on, in a compact stainless steel package with low installation costs. Let us prove our reliability to you.

Unrivaled Resources for Innovation

Continuous innovation like the ST-2-FF Pilot is a vital part of our ongoing success. We invest heavily in facilities and experts. Our research and development center makes up the largest and most advanced testing complex in the industry. This exclusive resource allows us to push innovation, gain expertise and measure performance in a full-scale industrial setting under near real-world conditions.

Contact us today for more information on the ST-2-FF Pilot.