InnovaTek Catalysts and Fuel Processing Products

**iTek® Catalysts**
- Developed for processing multiple fuels, both gaseous and liquid
- Proprietary formulas for 3 different reactions and temperatures
  1. Pre-reforming, 500-550°C
  2. Reforming, 700-800°C
  3. Water Gas Shift, 280-400°C

**H2Tek® Reformer**
- Scalable
- Water neutral
- Integrated multi-fuel burner
- Microchannel processing at high rate
- Intrinsic process & thermal control

**X-Tek® Heat Exchanger**
- High heat transfer density
- Microchannel design
- Low pressure drop
- Very compact
- Scalable

**Innovajet® Fuel Injector**
- Atomizes and vaporizes fuel
- Mixes fuel and steam
- Helps reduce coke formation
- Use with multiple types of liquid fuels

Price quotes available for these products to qualified parties upon request.
Submit all requests to: mail@innovatek.com or call 509-375-1093
InnovaGen® Fuel Processor

The InnovaGen® Fuel Processor, currently available for testing with strategic partners, includes integrated components in a framework or enclosure for easy installation. Components include the following InnovaTek proprietary products: H2Tek® reformer, iTek® catalysts, InnovaJet® fuel injector, X-Tek® heat exchangers, optional InnovaPure® WGS reactor, condenser, and the required insulation and balance of plant hardware.

The InnovaGen is capable of processing up to 68 mls per minute of biodiesel, jet fuel, ultra low sulfur (ULS) diesel, gasoline, ethanol, or other liquid fuel and generating up to 215 LPM hydrogen, enough for a 15 kW fuel cell. The system can be readily configured for processing gaseous fuels such as propane and natural gas. InnovaTek engineers will also integrate your fuel cell with the InnovaGen fuel processor and balance of plant components.

InnovaGen® Product Composition
For Two Fuel Cell Types

<table>
<thead>
<tr>
<th>Composition, volume %</th>
<th>Designed for Fuel Cell Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>H₂</td>
<td>44</td>
</tr>
<tr>
<td>H₂O</td>
<td>40</td>
</tr>
<tr>
<td>CO</td>
<td>6</td>
</tr>
<tr>
<td>CO₂</td>
<td>10</td>
</tr>
</tbody>
</table>

* System design for HT PEMFC includes InnovaPure® WGS reactor

Price quotes available for InnovaGen® Fuel Processor and system component products to qualified parties upon request. Ask about options for fuel desulfurization, fuel cell integration, and system controls.

Contact Us
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