Preserving Sample Integrity with API 14.1 Compliance

The Hot-Shot™ Heated Enclosure System will help prevent natural gas sampling distortion caused by condensation. This condition occurs when the temperature of the sampled gas drops below the hydrocarbon dew point of the flowing gas stream. The compact, versatile and cost-effective Heated Enclosure eliminates this problem by enclosing and heating the entire sampling system. To avoid errors of 10% or more, the Heated Enclosure keeps the sample collected as well as all sample system components at least 30°F above the hydrocarbon dew point of the gas being sampled.

Product Features:

- Complies with API 14.1 recommendations for accurate sampling
- Sample probe, pump and cylinder are heated to between 100°F – 140°F using catalytic heater technology
- Certified Class I, Division 1 components
- Electric powered heater available
- Many mounting configurations available to fit all applications
- Field tested in hundreds of installations
- Gas BTU range of 900 – 1,250 BTU/cu. ft. natural gas (other ranges optional)
Heated Enclosures Overview

Product Features:

- Complies with API 14.1 recommendations for accurate sampling
- Sample probe, pump and cylinder are heated to between 100°F and 140°F
- Certified Class I, Division 1 components
- Can be retrofitted in the field for use with existing sample pump
- Heater supply gas taken from sample probe
- Electric powered heater available
- Enclosure has overheat protection
- Large capacity scrubber protects heater and sampler solenoid from moisture and H₂S
- Many mounting configurations available to fit all applications
- Field tested in hundreds of installations
- Gas BTU range of 900-1250 BTU/cu. ft. natural gas
  (See code BXX on Options list for gas supply outside this range)

Introduction to Hot-Shot™ Heated Enclosures

Over years of research and extensive testing to determine the best practices for collection and handling of natural gas samples for custody transfer, the American Petroleum Institute (API) continues to update Chapter 14.1 of the Manual of Petroleum Measurement Standards (MPMS). The API 14.1 standard recommends all natural gas sample system components be maintained at least 30° above the hydrocarbon dew point temperature of the gas being sampled. Tests indicate that if the temperature of any sampling system component drops below the hydrocarbon dew point, errors of more than 10% may occur.

Parker’s Hot-Shot™ Heated Enclosure Systems are engineered and designed to ensure natural gas samples and composite sampling system components are consistently maintained at a temperature above the hydrocarbon dew point of the flowing gas stream. In doing this the heated enclosure helps to assure that a true representative average sample is taken.

Parker’s Hot-Shot™ Heated Enclosure Systems meet the requirements of API 14.1. All sampling components are heated and maintained between 100°F and 140°F (37°C and 60°C). Utilizing proven catalytic heater technology, the system runs off the natural gas sample source. If the enclosure temperature exceeds 200°F, a patented thermostat design ensures overheat protection with a safety shut-off feature.

Two compact Hot-Shot™ Heated Enclosure styles are now available and provide unique mounting capabilities. An array of additional options to customize your system is available to meet your specific sampling needs.
Heated Enclosures

Product Components:

- Sample Pump Controller *
- Cylinder Mount
- “Q” Quick Connect
- Polyisocyanurate Foam Insulation
- Gas Supply Shutoff Valve
- Thermostat
- Sample Bottle *
- Pressure Regulator
- Catalytic Heater
- Sample Pump *
- Filter Canister

* Sold separately
HE-5 Ordering Information and Options

Ordering Information:

### HE-5 Standard Unit Includes:
- 300 Series SS enclosure, heater, and pressure regulator
- 140°F control thermostat with 200°F overheat protection
- Filter canister with CO₂, H₂S, and moisture scrubber element
- Lockable door added security
- Visual temperature gauge on door
- 1/4” MNPT Nipple for the bottle maintenance
- 316 SS tubing and fittings
- H₂S/ H₂O contamination desiccant indicators

**Note:** The standard heater is designed to operate with 900 – 1,250 BTU/Cu. Ft. natural gas.

For operations outside of this range, see code "BXX" of options list. If you are between options, select lower heater BTU range option.

### HE-5 Ordering Information and Options

#### HE-5 Standard Unit Includes:
- 300 Series SS enclosure, heater, and pressure regulator
- 140°F control thermostat with 200°F overheat protection
- Filter canister with CO₂, H₂S, and moisture scrubber element
- Lockable door added security
- Visual temperature gauge on door
- 1/4” MNPT Nipple for the bottle maintenance
- 316 SS tubing and fittings
- H₂S/ H₂O contamination desiccant indicators

**Note:** The standard heater is designed to operate with 900 – 1,250 BTU/Cu. Ft. natural gas.

For operations outside of this range, see code "BXX" of options list. If you are between options, select lower heater BTU range option.

### Ordering Information:

Example Part Number: **HE-5P1K-G2L02N3**

<table>
<thead>
<tr>
<th>Example Part Number</th>
<th>HE-5</th>
<th>P1K</th>
<th>-</th>
<th>G2L02N3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordering Parameters/Options:</td>
<td>Base Series</td>
<td>Pump Style</td>
<td>Options</td>
<td></td>
</tr>
<tr>
<td>Table Reference: (see below)</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### A - Pump Style

<table>
<thead>
<tr>
<th>Pump Style</th>
<th>Option</th>
</tr>
</thead>
<tbody>
<tr>
<td>P1E</td>
<td>PF1P</td>
</tr>
<tr>
<td>P1K</td>
<td>PF1K or T</td>
</tr>
<tr>
<td>P2E</td>
<td>PF2P</td>
</tr>
<tr>
<td>P2K</td>
<td>PF2K or T</td>
</tr>
<tr>
<td>P3E</td>
<td>PF3P</td>
</tr>
<tr>
<td>P3K</td>
<td>PF3K or T</td>
</tr>
</tbody>
</table>

#### B - Options

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>B7</td>
<td>Catalytic Heater for 600 – 800 BTU/Cu. Ft. Natural Gas</td>
</tr>
<tr>
<td>B16</td>
<td>Catalytic Heater for 1500 – 1700 BTU/Cu. Ft. Natural Gas</td>
</tr>
<tr>
<td>C</td>
<td>120V Electric Heater</td>
</tr>
<tr>
<td>E</td>
<td>Electrical Start Up Leads Installed, 25’ Length</td>
</tr>
<tr>
<td>GPA</td>
<td>Genie Filter Adapter</td>
</tr>
<tr>
<td>G</td>
<td>0 – 2000 PSI Liquid Filled Pressure Gauge</td>
</tr>
<tr>
<td>G2</td>
<td>0 – 100 PSI Liquid Filled Pressure Gauge</td>
</tr>
<tr>
<td>L01</td>
<td>Customer Probe Adapter (1/2” MNPT std.: N3= 3/4” MNPT, N4= 1” MNPT)</td>
</tr>
<tr>
<td>L02</td>
<td>2” Insertion Length (1/2” MNPT std.: N3= 3/4” MNPT, N4= 1” MNPT)</td>
</tr>
<tr>
<td>L03</td>
<td>3” Insertion Length (1/2” MNPT std.: N3= 3/4” MNPT, N4= 1” MNPT)</td>
</tr>
<tr>
<td>L06</td>
<td>6” Insertion Length (1/2” MNPT std.: N3= 3/4” MNPT, N4= 1” MNPT)</td>
</tr>
<tr>
<td>L10</td>
<td>10” Insertion Length (1/2” MNPT std.: N3= 3/4” MNPT, N4= 1” MNPT)</td>
</tr>
<tr>
<td>MP1</td>
<td>300 Series SS Pipe Mount Stabilizer Kit</td>
</tr>
<tr>
<td>P</td>
<td>Pressure Transducer on Sample Cylinder 0 – 2000 PSI, 1 – 5 volt output</td>
</tr>
<tr>
<td>P1</td>
<td>Pressure Transducer on Sample Cylinder 0 – 1000 PSI, 1 – 5 volt output</td>
</tr>
<tr>
<td>T</td>
<td>4 Wire 100 Ohm RTD with cable for enclosure temperature monitoring</td>
</tr>
</tbody>
</table>

Cylinders and Pumps ordered separately. See our Sample Cylinders & Accessories brochure for more product offerings.
**HE-5 Accessories**

**Customer Probe Adapters**

Part Number: HE-PA-PA-(NX)
System Option: L01 (NX)
(Blank) = 1/2" MNPT Inlet (standard)
(N3) = 3/4" MNPT Inlet
(N4) = 1" MNPT Inlet

- To adapt existing sample probe for heated enclosure mounting
- Integral soft seat full port shut-off valve
- Functions as a 4" probe riser when mounted on existing probe
- Hard anodized aluminum construction for heat transfer and corrosion resistance
- Customer supplied insulation required
- 2,000 PSi maximum pressure @ 200°F
- 1/2" MNPT inlet x 3/4" FNPT outlet (standard)

**Finned Probe Assembly**

Part Number: HE-P-STD-LXX (NX)
L02 = 2” Insertion Length
L03 = 3” Insertion Length
L06 = 6” Insertion Length
L10 = 10” Insertion Length

(Blank) = 1/2” MNPT Inlet (standard)
(N3) = 3/4” MNPT Inlet
(N4) = 1” MNPT Inlet

- Integral sample probe and enclosure mount
- Integral soft seat full port shut-off valve
- Hard anodized aluminum construction for heat transfer and corrosion resistance
- 2,000 PSi maximum pressure @ 200°F
HE-6 Ordering Information and Options

Ordering Information:

Building a Part Number: Example: HE-6P3K-EGJ4

<table>
<thead>
<tr>
<th>Ordering Part Number</th>
<th>HE-6 Base Series</th>
<th>P3K Pump Style</th>
<th>-</th>
<th>EGJ4 Options</th>
</tr>
</thead>
<tbody>
<tr>
<td>Example Part Number</td>
<td>A</td>
<td>B</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Table Reference: (see below)

A - Pump Style
- P1E P01P
- P1K PF1K or T
- P2E PF2P
- P2K PF2K or T
- P3E PF3P
- P3K PF3K or T

B - Options
- B7 Catalytic Heater for 600 – 800 BTU/Cu. Ft. Natural Gas
- B16 Catalytic Heater for 1500 – 1700 BTU/Cu. Ft. Natural Gas
- C 120V Electric Heater
- E Electrical Start Up Leads Installed, 25' Length
- G 0 - 2000 PSI Liquid Filled Pressure Gauge
- G2 0 - 100 PSI Liquid Filled Pressure Gauge
- J2" Saddle Mount Bracket for 2" Pipe Size
- J3" Saddle Mount Bracket for 3" Pipe Size
- J4" Saddle Mount Bracket for 4" Pipe Size
- J6" Saddle Mount Bracket for 6" Pipe Size
- J8" Saddle Mount Bracket for 8" Pipe Size
- J10" Saddle Mount Bracket for 10" Pipe Size
- J12" Saddle Mount Bracket for 12" Pipe Size
- P Pressure Transducer on Sample Cylinder 0 – 2000 PSI, 1 – 5 volt output
- P1 Pressure Transducer on Sample Cylinder 0 – 1000 PSI, 1 – 5 volt output
- T 4 Wire 100 Ohm RTD with cable for Enclosure Temperature Monitoring

Cylinders and Pumps ordered separately. See our Sample Cylinders & Accessories brochure for more product offerings.

HE-6 Standard Unit Includes:
- 300 Series SS enclosure, heater, and pressure regulator
- 316 SS tubing and fittings
- 140°F control thermostat with 200°F overheat protection
- Filter canister with CO₂, H₂S, and moisture scrubber element
- Tubing and cut out to mount probe on right or left side
- 3 ft. pigtail with 1/32” orifice
- Lockable door for added security
- Visual temperature gauge on door
- 1/4” MNPT Nipple for the bottle maintenance
- H₂S/ H₂O contamination desiccant indicators
- Genie filter probe must be purchased as a separate line item (see page 8)

Note: The standard heater is designed to operate with 900 – 1,250 BTU/Cu. Ft. natural gas.

For operations outside of this range, see code “BXX” of options list. If you are between options, select lower heater BTU range option.
HE-5 and HE-6 Dimensions

Pipe Mount Stabilizer Kits
To accommodate 2” pipe support in high wind or vibration conditions. (Installed on-site)
Includes Stabilizing Plate, (2) 2” (50.8mm) U-Bolt Brackets, (4) Split and Flat Washers, (2) O-Rings, and (6) Hex Head Bolts.
Part Number: HE-MP1 Stainless Steel
# Spare Parts and Accessories

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sample Pump Quick Mount “Q” Adapter O-Ring</strong></td>
<td></td>
</tr>
<tr>
<td>P5-131-R1</td>
<td>Replacement O-Ring</td>
</tr>
</tbody>
</table>

**H₂S / H₂O Filter Cartridge**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P7-147</td>
<td>Replacement Cartridge for CO₂, H₂S, and H₂O Filtration</td>
</tr>
</tbody>
</table>

**Cartridge Filter Canister Assembly (HE-5 only)**

- **CFU**  Drop-in replacement for unit in heated enclosure system
- **CFU-C** Drop-in replacement for unit in heated enclosure system (Canada only)

- **Option P** = Piggyback Canister

Optional configurations for heated enclosure include: CFU-P (add “C” for Canadian version)

**“Q” Bottle Mount Service Kit**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>SK-HE-003</td>
<td>Bottle Mount, spacer, valve and seat plus mounting screws</td>
</tr>
</tbody>
</table>

**Genie Filter Probe Adapter**

- **HE-PA-GPA** Mounts to the Genie membrane filter sample probe and provided for enclosure mounting; aluminum construction integral shut-off valve - **HE-5 ONLY**
- **HE-067**  Genie Probe Length: 2-3" (includes shut-off valve)
- **HE-064**  Genie Probe Length: 4" (includes shut-off valve)
- **HE-065**  Genie Probe Length: 6-8" (includes shut-off valve)
- **HE-066**  Genie Probe Length: 10-12" (includes shut-off valve)

**Heated Enclosure Thermostat Assembly**

- **HE-T-1420-011** (Natural Gas) Replacement thermostat assembly set between 100°F - 140°F with 200°F maximum overheat protection
- **HE-T-1715** Replacement high altitude thermostat assembly set between 100°F - 140°F with 200°F maximum overheat protection

**Sample Bottle Quick Mount “Q” Adapters:** includes a safety plug for guaranteed sample retention in transit

Adapts a sample bottle having a **Female** shut-off valve outlet for use with the heated enclosure system. Includes Safety Plug and O-ring, 1/4” Male NPT inlet x “Q” Adapter outlet.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QA-M-14-S</td>
<td>(316 SS) Adapter with NO Safety Plug - 316 SS</td>
</tr>
<tr>
<td>HE-037-C0</td>
<td>Adapter with NO Safety Plug - 316 SS</td>
</tr>
</tbody>
</table>

Adapts a sample bottle having a **Male** shut-off valve outlet for use with the heated enclosure system. Includes Safety Plug and O-ring, 1/4” Female NPT inlet x “Q” Adapter outlet.

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>QA-F-14-S</td>
<td>(316 SS) Adapter with NO Safety Plug - 316 SS</td>
</tr>
<tr>
<td>HE-080-C0</td>
<td>Adapter with NO Safety Plug - 316 SS</td>
</tr>
</tbody>
</table>
# HE-5 and HE-6 Interceptor Samplers

## Ordering Information:

### Building a Part Number: Example: PF3PL-Z2

<table>
<thead>
<tr>
<th>Example Part Number:</th>
<th>PF</th>
<th>3</th>
<th>P</th>
<th>L</th>
<th>Z2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ordering Parameters/Options:</td>
<td>Base Series</td>
<td>Pump Style</td>
<td>System Configuration</td>
<td>Mounting Methods</td>
<td>Options</td>
</tr>
<tr>
<td>Table Reference: (see below)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### A - Pump Style

<table>
<thead>
<tr>
<th>Code</th>
<th>Regulator</th>
<th>Outlet Control</th>
<th>Inlet Pressure</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>No</td>
<td>Spring Check</td>
<td>50 to 90 PSI (see S2 options for under 50 PSI)</td>
</tr>
<tr>
<td>2</td>
<td>No</td>
<td>Balance Valve</td>
<td>90 to 1480 PSI severe service with H2S and CO2 (requires alternative air or gas source to operate solenoid) (see Z3 options for 90 to 2200 PSI)</td>
</tr>
<tr>
<td>3</td>
<td>Yes</td>
<td>Balance Valve</td>
<td>90 to 1480 PSI (see Z2 options for 90 to 2200 PSI)</td>
</tr>
</tbody>
</table>

### B - System Configuration

<table>
<thead>
<tr>
<th>Code</th>
<th>Controller</th>
<th>Solenoid</th>
<th>Electronics Enclosure</th>
<th>Bite Size Adjustment</th>
<th>Power</th>
</tr>
</thead>
<tbody>
<tr>
<td>K</td>
<td>None</td>
<td>12 VDC</td>
<td>None</td>
<td>Adjustable from 0cc to .5cc</td>
<td>Customer Supplied</td>
</tr>
<tr>
<td>P</td>
<td>G 6000</td>
<td>6 VDC</td>
<td>On top of Heated Enclosure</td>
<td>Adjustable from 0cc to .5cc</td>
<td>PF-2500 (14 amp hour battery)</td>
</tr>
<tr>
<td>T</td>
<td>None</td>
<td>24 VDC</td>
<td>None</td>
<td>Adjustable from 0cc to .5cc</td>
<td>Customer Supplied</td>
</tr>
</tbody>
</table>

### C - Mounting Methods

<table>
<thead>
<tr>
<th>Code</th>
<th>Heated Enclosure</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>HE-5</td>
<td>No probe; 3/4” MNPT pump connection; requires addition of a probe adapter, probe or riser option (sold separately) (L01 / L02 / L03 / L06 / L10) in the HE-5 Heated Enclosure Part No. selection</td>
</tr>
<tr>
<td>L</td>
<td>HE-6</td>
<td>No probe; 3/8” FNPT with tubing pump connection (Genie probe sold separately and is selected under the Spare Parts and Accessories section on page 8)</td>
</tr>
</tbody>
</table>

### D - Options: Note: First letter of an option is written once (i.e., “Z2”, “Z4” and “Z5” write as “Z245”)

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H6</td>
<td>Pump mounted inside Heated Enclosure (HE-6 only)</td>
</tr>
</tbody>
</table>

### Heated Enclosed Mounting Option

- **Solenoid and Low-Pressure Set Options**
  - S2 Low pressure solenoid, 12 VDC or 6 VDC, 50 PSI max. pipeline pressure (15 to 50 PSI factory-set spring check)
  - S2P1 Low Pressure Solenoid, 5-15 PSI factory set spring check (.5cc minimum bite) **PF1 Only**
  - S2P2 Low Pressure Solenoid, vacuum to 5 PSI factory set spring check (.5cc minimum bite) **PF1 Only**

### Pump Options

- **ZA** PF3 Low-Temperature O-Rings (-40°F)
- **Z2** 316 SS Pump and Regulator for PF3 - rated to 2200 PSI maximum inlet pressure **
- **Z3** 316 SS Pump for PF1 and PF2 - rating changes to 2200 PSI maximum inlet pressure for the PF2 only **
- **Z4** “E” Nickel/316 SS Fittings to Solenoid
- **Z5** CO2 Service O-Rings

* Requires a minimum of 30 PSI alternative source to operate solenoid

** 140°F max. temperature to meet NACE MR0175/ISO 15156-3
Parker’s Motion & Control Technologies

At Parker, we’re guided by a relentless drive to help our customers become more productive and achieve higher levels of profitability by engineering the best systems for their requirements. It means looking at customer applications from many angles to find new ways to create value. Whatever the motion and control technology need, Parker has the experience, breadth of product and global reach to consistently deliver. No company knows more about motion and control technology than Parker. For further information call 1-800-C-Parker.

<table>
<thead>
<tr>
<th>MARKET</th>
<th>KEY MARKETS</th>
<th>KEY PRODUCTS</th>
</tr>
</thead>
<tbody>
<tr>
<td>CLIMATE CONTROL</td>
<td>Agriculture Food, Beverage and Dairy Precision Cooling Transportation Air Conditioning Life Sciences &amp; Medical Processing Co2 Controls Electronic Controllers Filter Driers Hand Shut-Off Valves Hose &amp; Fittings Pressure Regulating Valves Refrigerant Distributors Safety Relief Valves Solenoid Valves Thermostatic Expansion Valves</td>
<td></td>
</tr>
<tr>
<td>FLUID and GAS HANDLING</td>
<td>Aerospace Agriculture Bulk Chemical Handling Construction Machinery Food &amp; Beverage Fuel &amp; Gas Delivery Industrial Machinery Mobile Oil &amp; Gas Transportation Welding Brass Fittings &amp; Valves Diagnostic Equipment Fluid Conveyance Systems Industrial Hose PTFE &amp; PFA Hose, Tubing &amp; Plastic Fittings Rubber &amp; Thermoplastic Hose &amp; Couplings Tube Fittings &amp; Adapters Quick Disconnects</td>
<td></td>
</tr>
<tr>
<td>HYDRAULICS</td>
<td>Aerospace Aerial lift Agriculture Construction Machinery Forestry Industrial Machinery Mining Oil &amp; Gas Power Generation &amp; Energy Truck Hydraulics Diagnostic Equipment Hydraulic Cylinders &amp; Accumulators Hydraulic Motors &amp; Pumps Hydraulic Systems Hydraulic Valves &amp; Controls Power Take-Offs Rubber &amp; Thermoplastic Hose &amp; Couplings Tube Fittings &amp; Adapters Quick Disconnects</td>
<td></td>
</tr>
</tbody>
</table>
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