

# (EFS) Envent Field Station

## Self-Contained Pre-Sampling System

The EFS is a multi-function miniaturized pre-sample conditioning system probe-mounted and installed at the sample point. The EFS allows for the filtration and pressure reduction of process samples allowing for faster response times and a representative sample to the analyzer. With over 300 preassembled, field-serviceable configurations, the EFS is designed to meet a multitude of sample conditions. Envent engineers can design a custom solution specific to your unique applications.

### Features

- Reduced lag time (increased response time to analyzer)
- Fully field-serviceable
- Reduce analyzer maintenance and sample system cost
- Application Specific: reviewed by Envent engineers to ensure the right configuration is specified for your application
- Direct probe mount available
- 300+ configurations
- NACE-compliant components available
- ABSA AB-83 Certification by Envent

### Applications

- Natural Gas Liquids (NGL)
- Renewable Natural Gas & Biogas
- Saturated streams
- High water content streams
- Raw gas
- High pressure (multi-stage pressure regulation)



EFS with dual heated regulators

EFS with vaporizing regulator

EFS with 4-stage JTR regulator

**General Specifications**

(Configuration to be provided by Envent Engineering Ltd. upon review of application)

**Temperature Code**

T3

**Ambient Temperature**

AC Block Heater:  $-60^{\circ}\text{C} < T_a < 150^{\circ}\text{C}$   
DC Block Heater:  $-50^{\circ}\text{C} < T_a < 160^{\circ}\text{C}$   
Vaporizing Regulator:  $-50^{\circ}\text{C} < T_a < 85^{\circ}\text{C}$

**Power**

AC Block Heater: 110 – 227V AC/DC 80W  
DC Block Heater: 24V AC/DC 25W  
Vaporizing Regulator: 100 – 240 VAC; 400W Max., 50/60 Hz  
\* The EFS package is not independently certified. However, the components within the package are all CSA certified as follows:

**Electrical Classification\***

AC Block Heater: Class I, Div.1 Groups A, B, C, D  
Class I, Zones 1 & 2 Group IIC  
DC Block Heater: Class I, Div.1 Groups A, B, C, D  
Vaporizing Regulator: Class I, Div.1 Groups B, C, D  
Class II, Div.1 Groups E, F, G  
Class I, Zone 1, AEx db IIB+H2 T3 Gb;  
Zone 21, AEx tb IIIC T200C Db  
Ex db IIB+H2 T3 Gb;  
Ex tb IIIC T200 Db

**Filtration**

Standard: Membrane Filter  
Saturated Applications: Inline Particulate Filter

**Regulation**

Standard: Single Heated Regulator  
High-Pressure Sample: Dual Heated Regulator  
Saturated Sample: Vaporizing Regulator  
Available: 4-Stage Regulator

**Inlet Pressure**

Up to 4500 psi

**Outlet Pressure**

30 to 100 psi

**Probe Type**

Standard: Quill Probe  
Available: Extractable Probe



EFS with heated regulator and PSV



EFS with single stage heated regulator



**Canadian Office**  
2721 Hopewell Place NE  
Calgary, Alberta, Canada T1Y 7J7  
Phone: 403-253-4012  
Email: [canadasales@envent.com](mailto:canadasales@envent.com)

**USA Office**  
12560 Reed Road, Suite 200  
Sugar Land, Texas, USA 77478  
Phone: 713-568-4421  
Email: [usasales@envent.com](mailto:usasales@envent.com)

**Mexico Office**  
Av. Revolución No. 1267,  
Floor 19, Office 55  
Mexico City, MX  
Phone: +52 833 247 8260  
Email: [mexicosales@envent.com](mailto:mexicosales@envent.com)

**International**  
Phone: 403-253-4012  
Email: [internationalsales@envent.com](mailto:internationalsales@envent.com)