

(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



EFS with heated regulator and
PSV



EFS with single stage heated
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

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