



Natural gas chromatograph

Liquid Injection System

As natural gas compositions become richer due to the increased production of unconventional gas from shale formations, there is growing demand to measure NGL's in the upstream/midstream oil and gas market. The NGC Liquid Injection System allows the customer to measure these heavier NGL streams with the NGC or PGC1000. The NGC Liquid Injection System is fully compliant with GPA-2177, and is suitable for use with any liquid stream having a dew point below 100°C, including: NGL's, Y-grade condensates, and BG gasoline.



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Liquid Injection System

The Liquid Injection System utilizes a true liquid inject valve to inject a liquid sample into a flowing gas stream. This injection, in effect, lowers the dew point of the sample to where it can now be measured by the NGC. Once the sample has been delivered to the NGC it can be measured by a variety of methods.



The Liquid Injection System is fully compliant with GPA 2177, as the liquid sample valve is outside the heated zone (GC). The Liquid Injection System comes as a fully integrated package, including the Liquid Inject panel, pilot valves and controller, in an environmental enclosure. Designed for NGL's with dew point below 100°C/212°F.

- Designed for NGL's with dew point below 100°C/212°F
- Carrier gas—He; Actuation gas—Air
- Meet or exceeds GPA 2271 for repeatability/reproducibility

Specifications	
Dimensions	37" deep x 47" long x 32" tall (93.9 cm x 119.4 cm x 81.3 cm)
Weight	Approximately 375 lb. (170.1 Kg) Shipping Weight: 425 lb. (192.8 Kg)
Weatherproof construction	CSA Type 4X, IECEx IP56, ATEX Type 4X (IP66 Equivalent), aluminum alloy with white polyester powder coating
Carrier gas consumption	Helium – 1 large helium bottle should last 90 days
Actuation gas consumption	Air—1 large bottle should last 30 days or instrument air
Analysis time	Application dependent
Repeatability	Meets GPA-2177
Temperature range (with weather enclosure)	-40°F to +130°F (-40°C to 55°C)
Moisture	95% Relative Humidity Non-Condensing
Supply voltage	120 V AC