SIMDIST analyser

PD 100 | 110 | 120 | 130 | 140

- Providing boiling point distribution of petrochemical samples
- SIMDIST software fully integrated in Chromeleon data system
- iConnect modular injectors and detectors
- High uptime, low maintanance

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SIMDIST analyser

The Simulated Distillation (SimDist) analyser is a powerful instrument used to determine the boiling point distribution of complex hydrocarbon mixtures. It provides rapid and accurate characterisation of petroleum products, enabling efficient quality control and process optimisation. By simulating traditional distillation methods through advanced gas chromatography techniques, the SimDist analyser delivers precise data with significantly reduced analysis time. It is widely used in refining, petrochemical, and research laboratories to assess product composition, ensure compliance with industry standards, and support formulation development. Its reliability, speed, and ease of operation make it an essential tool for modern analytical workflows.

Principle of operation

GAS offers fully automated SIMDIST solutions that deliver True Boiling Point (TBP) data in accordance with international reference methods. Each system is factory-calibrated, precisely tuned to the specified method, and validated using certified reference materials. Built on proven Thermo GC technology with optimised inlets, the platform ensures consistent and reliable SIMDIST performance. The GAS SIMDIST Calculator software is seamlessly integrated into the Thermo Chromeleon™ data system, creating a clear, intuitive, and efficient workflow. Figure 1 illustrates the sample sequence list, including samples, calibration runs, blanks, and check standards, while Figure 2 presents a representative SIMDIST chromatogram with baseline subtraction applied.

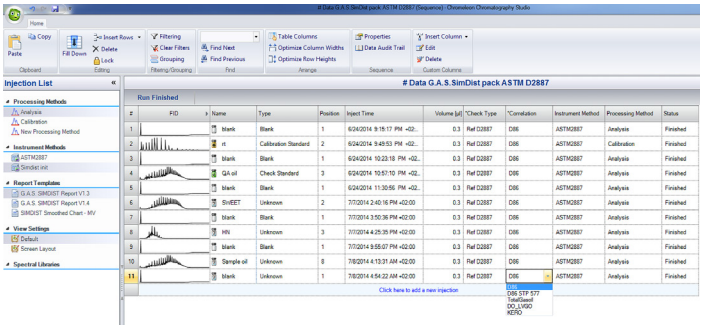

Figure 1 Chromeleon data system with GAS SIMDIST Calculator software

Configuration range

This product note provides ordering information for SIMDIST analyser configurations designed to accommodate a wide range of sample types, as defined by standardised analytical methods (see table below).

Specification

- Thermo Trace GC1600 with PTV (programmable Temperature Vaporiser), capillary column, FID
- Separation column depending on the standardised method (see table below)
- Chromeleon chromatography data system
- GAS SIMDIST Calculator software, providing:
- ASTM D86 / D1160 correlation.
- Custom correlation models
- DIN 51.581 (NOACK)
- ASTM D6417 (MOV)
- Flashpoint correlations according to ASTM D56, D93 and D3828
- Cut point tables
- Carbon number report
- Quality control report (conformity with reference samples)

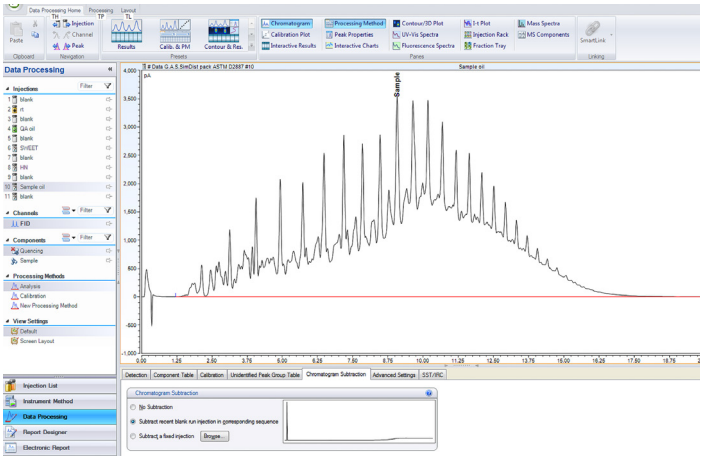

Figure 2 SIMDIST chromatogram with baseline subtraction

Ordering information	PF10X - ABCDE | ASTM D2887 PF12X - ABCDE | ASTM D6417/D7213/D5442 PF13X - ABCDE | ASTM D6352/D7500/DIN 15.199 1-3 PF14X - ABCDE | ASTM D7096 (cryogenic option) PF15X - ABCDE | ASTM D7169 (cryogenic option + Cold-On-Column injector)			
code X	0	1	2	3
GC model, power	1600, 230V	1610, 230V	1600, 115V	1610, 115V

For the selection of options (e.g. GC oven cryo valves, Power plug type and more), see the options table in the order guide.

About GAS

Global Analyser Solutions provides GC & GC-MS solutions for Energy, Refinery, Chemical and Environmental markets. Our analysers address a broad spectrum of measuring requirements with high precision and reliability. Please reach out for more information on our website. www.gassite.com