Specifically targeted for routine quality control and high productivity laboratories, the Thermo Scientific FOCUS GC is a compact, single-channel gas chromatograph. Conceived and built around the “core” hardware and unique features of the Thermo Scientific TRACE GC Ultra, the FOCUS GC™ incorporates new, best of breed electronics. The FOCUS GC is the reference for precision and accuracy of results, as well as a standard for durability in QA/QC and high throughput environments.

Thermo Scientific FOCUS GC
Full-sized GC performance

Compact Size
Small footprint for bench space optimization: 430 x 510 x 350 mm (HxDxW)

Optimized User Interface
Allows simple control of the main functions of the GC while preventing access to the more critical parameters of the method from unauthorized personnel. In line with the requirements of QA/QC environments.

Automatic Column Characterization
Automatic measurement of the effective column’s resistance for exceptional column-to-column and instrument-to-instrument retention time reproducibility at no additional cost.

Wide Oven
Wide oven with front opening allows easy accessibility for straightforward installation of capillary columns mounted on standard diameter cages. Oven dimensions are 225 x 225 x 140 mm (HxDxW)

Additional Instrument Control
Instrument start-up and real-time diagnosis, on-line help describing each parameter, logbook with deviation records, and local keyboard lock provide complete and safe system handling.

Leak Check
Automatic leak check function for rapid routine system control.

Thermo Scientific AI/AS 3000 II Autosampler
Combined with the 8-sample AI 3000 II Autoinjector or the 105-sample AS 3000 II Autosampler, the FOCUS GC is positioned in line with your laboratory’s throughput requirements at any moment in time, thus preserving scalability.

Thermo Scientific TriPlus Autosampler
For additional productivity and flexibility, the Thermo Scientific TriPlus Autosampler is the ideal solution, able to simultaneously automate two adjacent FOCUS GC gas chromatographs. Scalerability is preserved, with capacities for up to 300 samples and multiple injection modes.
**Thermo Scientific FOCUS GC Gas Chromatograph**

**Features and Technical Specifications**

### Specifications

#### Power Supply
110 V and 230 V power supply

#### Base Unit
- Height: 430 mm, Depth: 510 mm, Width: 350 mm
- Weight: 30 kg

#### Column Oven
- Compatible with standard capillary column cages
- Temperature range: from a few degrees above ambient to 350 °C
- Program rates: 0.1 to 120 °C/min
- Ramps: 7
- Plateaus: 8
- Typical cool-down time: 350 °C to 50 °C in 270 seconds
- Typical heat-up time: 50 °C to 350 °C in 270 seconds

#### Injectors
- Split-Splitless
  - Temperature range: 50 °C to 375 °C
- Purged-Packed
  - Temperature range: 50 °C to 400 °C. Suitable for both wide bore and packed columns

#### Digital Pressure/Flow Controller (1000 kPa)
- High pressure pneumatic module
- Ambient temperature compensation: Yes
- Ambient pressure compensation: Yes
- Gas saver: Yes
- Automatic column characterization: Yes
- Automatic leak check: Yes
- Pressure surge: Yes

#### Base Body with Gas Control for FID
- Includes a complete base body with all relevant pneumatic controls for three gas lines
- The temperature of the base body is finely controlled in the range of 50 °C to 375 °C in 1 °C increments
- The pneumatic module includes three pressure controllers, calibrated restrictors, and on/off valves for H₂, Air, and make-up gases

#### Detectors
- Flame Ionization Detector
  - MDA: $2 \times 10^{-12}$ gC/sec
- Thermal Conductivity Detector
  - Linearity: $10^7$
  - Selectivity or additional features: Flameout detection and timed programing capability. Acquisition rate: 300 Hz

#### Gas Sampling Valve
- 6-port sampling/switching valve available as an optional accessory for petrochemical and industrial applications. Equipped with selectable sampling loops.

#### Autosamplers
- FOCUS GC is compatible with AI 3000 II Autoinjector, AS 3000 II Autosampler, and TriPlus Autosampler

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