Advanced Micro Controller Gas Chromatograph

ANALYTE 2900A GAS CHROMATOGRAPH

INDUSTRIES COVERED
- PHARMACEUTICAL
- CHEMICAL
- PETROCHEMICAL
- RESEARCH
- ENVIRONMENT
- AGRICULTURE

MULTIPLE APPLICATIONS
(NARROW & WIDE BORE CAPILLARY CONFIGURATIONS)

OPTIONAL ATTACHMENTS
AUTO LIQUID SAMPLER, HEAD SPACE SAMPLER, COMBINED AUTOLIQUID & HEAD SPACE SAMPLER

TYPE OF DETECTOR - FID

LLOYD'S REGISTER QUALITY ASSURANCE ISO9002 UKAS ENVIRONMENTAL MANAGEMENT 001 NETEL

TECHNICAL SPECIFICATIONS

Gas Chromatograph Model Analyte 2900A with Dual Flame Ionization Detectors and two nos. Split/Split-less injection ports.

COLUMN OVEN

Size	[H] 290 mm X [W] 280 mm X [D] 160 mm
Volume	13.8 Ltrs.
Temperature	5 °C above the ambient temperature to 500 °C
Ramp rate	0.1 °C to 50 °C per minute
No. of ramps	10
Cooling rate	300 °C to 50 °C within 7 minutes at 25 °C room temperature
Temperature Gradient	2 °C max (on 200 mm Dia. Circumference, 40 mm from the sensor)
Temperature Accuracy	± 1% of set value from 50 °C to 500 °C
Heated zones	5 Independent Heated Zone up to 400 °C for individual control of Injectors, detectors, oven

PNEUMATICS

Electronic pressure controller (EPC) provides excellent performance with capillary columns. Each channel allows complete electronic pressure control that includes carrier gas, split adjustment & combustion gases namely hydrogen and air for flame ionization detector.

Split /Split-less Injector	Pressure range 0 to 450 kpa. Constant Pressure or constant flow settable
Pressure program	Provided
Correction Factor	Maintains the constant flow or average linear velocity during oven heating

INJECTION SYSTEM

- Two Split/split-less (capillary column) injectors. With constant pressure or constant flow mode and pressure program.
- Temperature range settable up to 400 °C. in the step of 1 °C.

DETECTORS

- Higher sensitivity flame ionization detector requires no make up gas due to unique zero dead volume design
- Temperature range settable up to 400 °C. in the step of 1 °C.
- Dynamic range 10^7
- Sensitivity equivalent to 3pg C/sec of toluene/nonane.
- Polarization: --240 V DC.

DISPLAY

80 Characters (20 X 4 lines) Vacuum Florescent Display.

KEYBOARD

- 32 Keys for setting of the parameters & eight status L.E.D. indications
- PC control communication with one RS 232.
- 4 External event control relay output.
- 2 Logic inputs and 2 logic outputs.

POWER REQUIREMENT

Approximately 2800 VA max

SIZE 515 (W) X 450 (H) X 485 (D) mm.

WEIGHT Approximately 37 Kg.

KEY FEATURES

- Advance electronics architecture based on latest micro controllers
- Injectors and Detectors settings
- Up to 8 Channel Programmable Pressure Controllers, each allowing accurate and precise electronic pressure regulation for carrier gas, Hydrogen, Air and Split settings
- Designed for high level application in Pharma, Oil & Gas, Environmental, Agriculture, and Research
- PC controlled
- Gas Saver Capabilities
- User Friendly digital display key board provides
  - Method storage and editing facilities
  - Flow & pressure programming
  - Oven programming
  - Events time setting

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