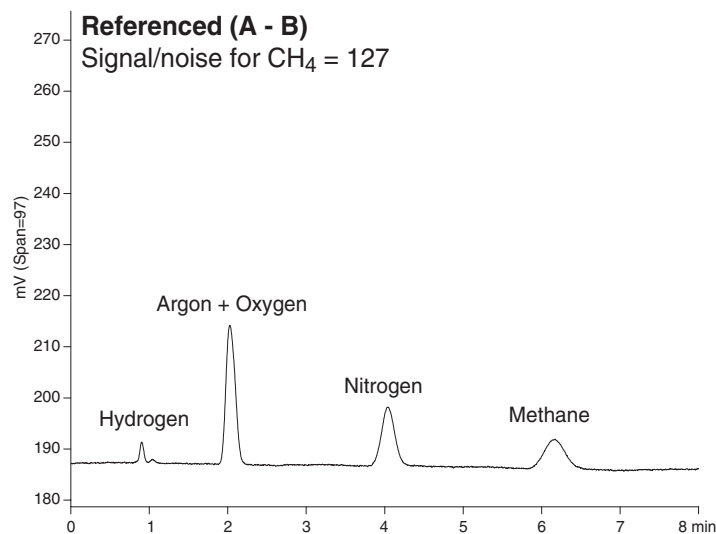
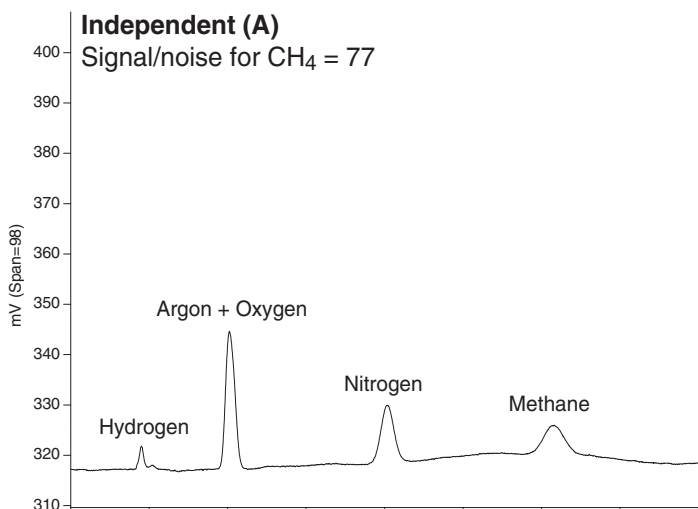


## Independent vs. referenced operation

## Specifications



### Helium Blend

Sample size: 250 µl  
 Sample concentration: 100 ppm each  
 Column: 10' x 1/16" OD x 0.040" ID  
 Molesieve 5Å, micropacked  
 Column temp: 65°C  
 Detector temp: 100°C  
 Filament temp setting: 5.0  
 Flow rate  
 Channel A: 5.5 ml/min  
 Channel B: 5.42 ml/min

### Overall

Linear range ..... 1 nanogram to 3 micrograms nC<sub>4</sub>  
 Minimum detectable ..... approx. 50 picograms n-butane quantity  
 Time constant ..... < 150 milliseconds  
 Cell temperature ..... Automatic proportional control with control  
 ±0.02°C stability  
 Maximum cell ..... 300°C  
 temperature

### Detector assembly

Dimensions ..... 3.12" x 6" x 3.75" high  
 (8 cm x 15 cm x 9 cm)  
 Gas connections ..... Valco 1/16" zero dead volume fittings  
 Single multi-pin ..... 5 foot cable supplied  
 connector

### Control unit

Dimensions ..... 12" x 8" x 5" high  
 (30 cm x 20 cm x 13 cm)  
 Electrical connections... Single multi-pin connector  
 Operator controls ..... Cell temperature control (40-400°C)  
 10-turn filament temperature  
 potentiometers (A & B)  
 10-turn coarse and fine baseline  
 adjustment potentiometers (A & B)  
 12 position recorder attenuator output  
 switch (A, B, or A-B)  
 Filament power on/off switch  
 Indicator LEDs ..... Detector heater "on"  
 Filament power "on"  
 Power requirements ..... Universal 100-250 VAC  
 50/60 Hz, 100W maximum

## Product numbers

	110 VAC	230 VAC
Dual cell microvolume TCD with: nickel/iron filaments	TCD2-NIFE	TCD2-NIFE-220
tungsten/rhenium filaments	TCD2-WRE	TCD2-WRE-220

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