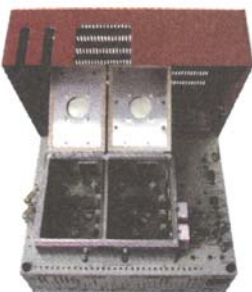


How to Build a Custom SRI GC

1. Pick a chassis.

What is your application?

If you will be injecting by gas sampling valve, purge & trap, thermal desorber or any other injector types in addition to on-column, then choose our versatile Model 8610C, which can mount up to five different injectors simultaneously.



For dual oven applications or "two GCs in one," choose the 8610D chassis.

If you will be injecting by syringe only, you can choose the ultra-compact Model 310.



For industrial rack systems, choose our 410 rack mount chassis.



If you want to add detectors to an existing GC, choose the Model 110.



For any model chassis except the 110, you must specify the data system model you want. A single channel data system is included as standard equipment with the 8610, 410 and 310 GCs. If you'll be ordering more than one detector on your GC, you will need a four or six channel data system. The one and four channel data systems connect to your computer's serial port, while the six channel model connects to a USB port.

2. Choose your detectors.

Detector types are selected depending on the particular application, the required detection limit, matrix interferences and/or regulatory guidelines. Since all five of our chassis can mount up to four (sometimes five or six) detectors simultaneously, you can perform a surprising variety of applications with one instrument.

DETECTOR	SELECTIVITY	SENSITIVITY (approximate)
CCD	hydrogen and hydrocarbons	500ppm
TCD	universal	200-500ppm
FID	hydrocarbons	1ppm
DELCD	chlorinated and brominated molecules	10ppb
FID/DELCD	hydrocarbons, chlorinated and brominated molecules	10ppm
HID	universal, except neon	10ppm
PID	aromatics and molecules with double carbon bonds	10ppb
NPD	nitrogen and phosphorus	10ppm
NPD/DELCD	nitrogen, phosphorus, chlorinated and brominated molecules	100ppb
TID	nitro functional groups (TNT, etc.), chlorinated phenols at slightly less sensitivity	1ppb, 50ppb
ECD	electronegative compounds (esp. chlorinated, fluorinated, or brominated molecules)	10ppb
RGD	reducing gases (like H ₂ and CO)	10ppb
FPD	sulfur and phosphorus	200ppb and 10ppb
FPD/FID	sulfur, phosphorus and hydrocarbons	200ppb, 10ppb, and 100ppm
Dual FPD	sulfur and phosphorus simultaneously	200ppb and 10ppb
FID Dual FPD	hydrocarbons, sulfur and phosphorus simultaneously	100ppm, 200ppb and 10ppb