GC Racer

GC Racer by Zip Scientific
- Saves time and money by increasing throughput.
- Makes fast GC possible with any capillary GC column.
- Easy to operate and install—truly a "plug and use" accessory.

Fast gas chromatographic temperature programs can speed up elution of high boiling point compounds and late eluters, but often are not used to maximum advantage. The Agilent 5890 has a maximum temperature program rate of 70°C/min., but the factory heating elements in the 5890 only allow this maximum rate to be maintained up to a temperature of 100°C. The Agilent 6890 allows a maximum ramp rate of 75°C/min. at starting temperatures of 50–70°C and 20°C/min. at starting temperatures of 300–450°C.* For analysts trying to push temperature ramps as fast as possible, these restricted program rates can lead to longer analysis time and broader peaks.

The GC Racer system will maintain a temperature program rate of 70°C/min. up to 350°C or 60°C/min. to temperatures as high as 450°C in an Agilent 5890 or a rate of 70°C/min. up to 400°C in an Agilent 6890.

Restek and Zip Scientific have teamed up to bring you the GC Racer temperature programmer, a system that enhances conventional ovens with an auxiliary heater that is controlled by the GC. The GC Racer consists of a control unit and a resistive heating element that is placed on the floor of the GC oven. The heating element is connected to the controller, which is plugged into the main PC board of the GC and into a 120V standard grounded wall outlet. When the GC Racer controller detects that the factory heating elements are not keeping up with the programmed heating rate, the GC Racer heater is brought into the circuit to augment the heat being supplied to the oven.

The auxiliary heater design is similar to that of the original GC heater. At no time during the installation of the GC Racer system is the column removed from the oven, or disconnected from the detector or injection port.

Figure 1 Faster temperature programs increase sample throughput.

6890 GC + GC Racer
6890 GC alone
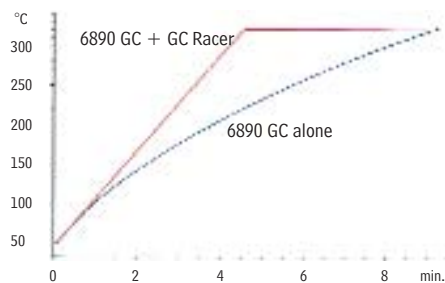
GC: Agilent 6890; Start Temp: 50°C,
Program: 60°C/min. to 320°C

a **plus 1** story

"We tried a GC Racer Temperature Programmer from Restek and now we want more! With the GC Racer, we can perform high speed temperature programming to get the results we need, and we can use conventional columns and fittings. This is a great time and cost savings for us. Not only that, but, with this system, we don't experience any leaks at the fittings, so we can use it with our mass spectrometer. All this for an economical price."

Josh Hildabrand, Chemist, and **William Mock**, Lab Manager, Environmental Science Corporation

The simplicity of its components and installation make the Zip Scientific GC Racer system a valuable tool in the quest for high-speed GC, and a must-have add-on accessory for every 5890 or 6890 GC. The speed of analysis that can be achieved and the ease of installation will lead to direct savings of time and money by decreasing run time and increasing sample throughput.

for **more** info

GC Racer brochure **(lit. cat.# 59297)** and Applications Note **(lit. cat.# 59457)**

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Description	voltage	qty.	cat.#
GC Racer for Agilent 5890 Series II (only) GC		ea.	23024
GC Racer for Agilent 5890A (only) GC		ea.	23025
GC Racer for Agilent 6890 (only) GC		ea.	23028

*Use of higher voltage and amperage or a special insert purchased with the GC will allow slightly higher ramp rates.