Restek GC Accessories

Same Separation, Speedier Solution

Get the same GC separation in less time—use a GC Accelerator kit and the *EZ*GC method translator to accurately convert methods to a scaled-down column format.



Pure Chromatography

www.restek.com

Same Separation, Speedier Solution

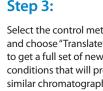
- Get the same GC separation in less time—use a GC Accelerator kit and the EZGC method translator to accurately convert methods to a scaled-down column format.
- Scaled-down methods let you speed up analysis time and increase sample throughput without capital investment.
- GC Accelerator installs easily without damaging the GC column or interfering with the MS interface.

Designed with GC-MS users in mind, the GC Accelerator kit provides a simple way to speed up sample analysis. By reducing oven volume, these inserts allow faster ramp rates to be attained, which reduces oven cycle time and allows for increased sample throughput and more capacity to process rush samples. When faster ramp rates are used, existing methods can be accurately scaled down to smaller, high-efficiency, narrow-bore columns using Restek's EZGC method translator. With a scaled-down column, a properly translated method, and a GC Accelerator kit, you can obtain the same chromatographic separation—often with greater sensitivity—in a fraction of the time without making a capital investment.

It's Easy, Here's How:

	Carrier Gas	O	riginal		Translatic	n	
ep 1:		He	elium	Ŧ	Helium	•	Step 2:
Step 1.	Column						
the EZGC method	Length		30	00	20.	00 m	Specify the dimensions of the scaled-down column
ator (www.restek. ezgc-mtfc) and input	Inner Diameter		0.	25	0.1	5 mm	that you want to use. Be
current method.	Film Thickness		0	25	0.1	15 μm	sure the calculated phase
ly enter the carrier	Phase Ratio		2	50	2	0	ratios for both columns
olumn dimensions,	Control Paramete	Control Parameters					are similar.
ate, outlet pressure, ven program that	Outlet Flow	-	1	20	→ 0.1	2 mL/min	1
urrently use.	Average Velocity		40	13		7 cm/sec	
	Holdup Time	-	1	25	0.8	88 min	
	Inlet Pressure (gauge)		11.	43	31.3	20 psi 🗸	
	Outlet Pressure (abs)		0	00	0.0	0 psi	
			Atm Vacu		Atm Vacuu	_	
	Oven Program						
	Isothermal	Ramp (°C/min)	Temp Ho (°C) (m		Ramp Temp (°C/min) (°C)	Hold (min)	
	Ramps Number of Ramps	(Qinin)	70	1	70	0.7	
	3 (1-4)	28	285	0	39.8 285	0	
		3	305	0	4.3 305	0	Translated
		20	320	5	28.5 320	3.5	3 parameters
	Control Method			_			
	Consta	nt Flow		-			
	Results Solve for	Results Solve for Efficiency Speed Translate Custom				Step 3:	
	Run Time		21			78 min	Select the control metho
	Speed		21	10		3 x	and choose "Translate"
	Speed				1.4		to get a full set of new

Learn more at www.restek.com/GCAccelerator

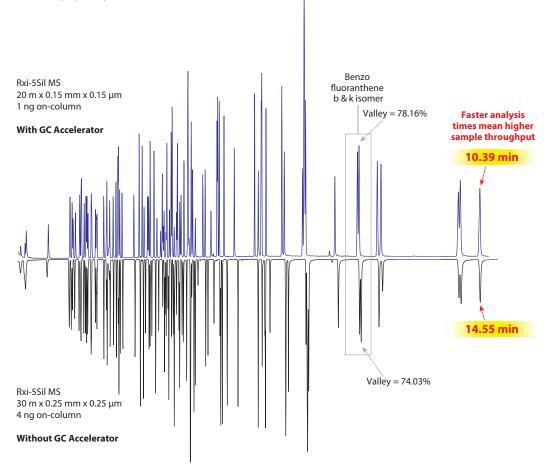


conditions that will provide similar chromatography in less time. Using a GC Accelerator kit allows your oven to meet the more aggressive ramp rates of the new method.



Get the same separation in a fraction of the time by scaling your method down to a smaller, more efficient column format with the *EZ*GC method translator.

Example: Semivolatiles by Split Injection



Visit www.restek.com/GCAccelerator for technical details on how we optimized this analysis.

Scaling Down is Possible Because You Can Meet More Aggressive Ramp Rates with GC Accelerator Oven Insert Kits

Temperature Range (°C)	120 V Oven Ram	np Rate (°C/min)	>200 V Oven Ramp Rate (°C/min)		
	Without GC Accelerator	With GC Accelerator	Without GC Accelerator	With GC Accelerator	
50–70	75	120	120	120	
70–115	45	95	95	120	
115–175	40	65	65	110	
175–300	30	40	45	70	
300-350*	20	30	35	65	

* Agilent ovens are programmable to 450 °C, but this product was only tested to a maximum operating temperature of 350 °C. Prior to analysis, confirm the analytical column can withstand the temperatures and ramp rates you plan to use.



GC Accelerator Oven Insert Kit

for Agilent 6890 and 7890 instruments

• Get the same separation in less time—use a GC Accelerator kit and the *EZ*GC method translator to accurately convert methods to a scaled-down column format.

Description	qty.	cat.#
GC Accelerator Oven Insert Kit for Agilent 6890 and 7890 instruments	kit	23849



low-polarity phase; Crossbond 1,4-bis(dimethylsiloxy)phenylene dimethyl polysiloxane

- Engineered to be a low-bleed GC-MS column.
- Excellent inertness for active compounds.

20 m, 0.15 mm ID, 0.15 μm -60 to 320/350 °C ea. 43816	Description	temp. limits	qty.	cat.#	
	20 m, 0.15 mm ID, 0.15 μm	-60 to 320/350 °C	ea.	43816	

One-Stop Shopping for Your Agilent GC-MS Maintenance Needs

Whether you need GC-MS supplies for your Agilent gas chromatograph or mass spectrometer, Restek has you covered with an extensive offering of products for both.

- Autosampler parts and accessories
- Injection ports and inlet supplies
- Columns and consumables
- MS ion sources and electron multipliers
- Filaments, drawout plates, and more replacement parts for your Agilent MSD

See our full selection at www.restek.com/GCacc

Learn more at www.restek.com/GCAccelerator



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Lit. Cat.# GNSS2830-UNV