# **TriPlus™ Autosampler**

Flexible Sampling Solutions



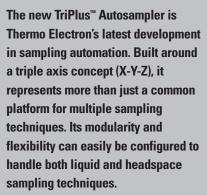


## **TriPlus Configurations**

The TriPlus Autosampler is available in three different configurations

- TriPlus AS for automated liquid sampling
- TriPlus HS for static headspace automation
- TriPlus Duo incorporates both techniques listed above

Additional upgrade kits are available to transform existing versions into multitechnique platforms.



With many available accessories, its specific engineering allows it to be the most powerful sampling system on the market for control capabilities, flexibility, and ease of use.



### **TriPlus Autosampler**

Providing innovative sampling solutions, the TriPlus Autosampler maximizes lab productivity by offering leading edge technology in automation. Merging robotic technology with advanced three-dimensional space movements (X-Y-Z), it provides unprecedented automation and the greatest possible flexibility in sample capacity.

# **Unique Control**

For ultimate automation, two GCs installed side-by-side can uniquely be accessed by the same sampling unit. This allows differentiated control, including fine-tuning, method transfer, and status retrieval, from two independent data systems. This fully-automated operation increases productivity by limiting supervised operation.

#### **Flexibility**

For ultimate flexibility, dedicated turrets with snap-on interchangeability are used for liquid and headspace sampling. Variations in techniques are easily accommodated, whether they involve syringe requirements for gases or liquids, On-column or Split-splitless injectors, and standard or large volume techniques.

#### **Ease of Use**

Any installed Thermo device is easily detected and recognized without requiring manual settings. The number and volume of syringes and vials are automatically detected for error-free and rapid start-up.

#### **Accessories**

Various accessories are available, including the Multiple Headspace Extraction (MHE), Rotating Bar Code Reader, and LAN connections to further expand overall usability and productivity.



# **TriPlus Autosampler**

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Features and Technical Specificati	ons
General	T '
Communication	Two independent RS232 serial connections, LAN
Instrument control	Thermo chromatography DS integrated, Stand-alone s/w, Pocket PC (Wireless, RS232 or IR communication
Injector compatibility	On-column, Programmable Temperature Vaporizing, Packed, Purged Packed, Split-splitless
High throughput configuration	Dual GC set-up (single TriPlus for liquid unattended serving two GCs)
Accessory for high automation	Rotating bar code reader
Autosampler Length (X axis)	870 mm
Autosampler Width (Y axis)	540 mm
Turret height (Z axis)	500 mm
Vial Trays	Heated and cooled trays expand the range of available applications
AS (Liquid Version)	
Vial volumes	1, 2, 2.5, 10, and 20 mL
Maximum vial capacity	300 for 1, 2, and 2.5 mL; 108 for 10 or 20 mL
Syringes sizes	Self-recognized: 5, 10, 100, and 250 μL
Injection volume range	0.1 to 250 in 0.1 μL steps, depending on syringe
Variable needle lengths	50 mm for split, 80 mm for Splitless or On-column
Parameter setting	8 method-specific presets or custom menus
Washing station	4 x 10 mL or 2 x 100 mL
Waste	1 x 10 mL or drain to external waste bottle
Combined solvent rinsing	Yes (Max. 4 solvents) for pre- and post-injection cleaning
Typical performance	<0.5 RSD% obtained on std HC mix
HS (Headspace Version)	
Vial volumes	10 and 20 mL
Maximum vial capacity	108
Syringe sizes	1, 2.5, and 5 mL
Injection volume range	0.1 to 5 mL in 0.1 mL steps depending on syringe
Syringe temperature	40 to 150°C in 1°C steps
Incubation oven capacity	6 vials
Incubation oven temperature range	40 to 150°C in 1°C steps, with agitation
Syringe flush capability	Yes, with inert gas
Solvent syringe cleaning	Optional washing station (4 x 10 mL or 2 x 100 mL vials)
Multiple Headspace Extraction	Yes (optional accessory)
Enrichment sampling	Yes with optional kit for Cold Trap
Typical performance	<1 RSD% under appropriate conditions



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