





eVol® is the world's first digital analytical syringe

eVol® is the coupling of two precision devices: a digitally controlled electronic drive and an XCHANGE® enabled analytical syringe.

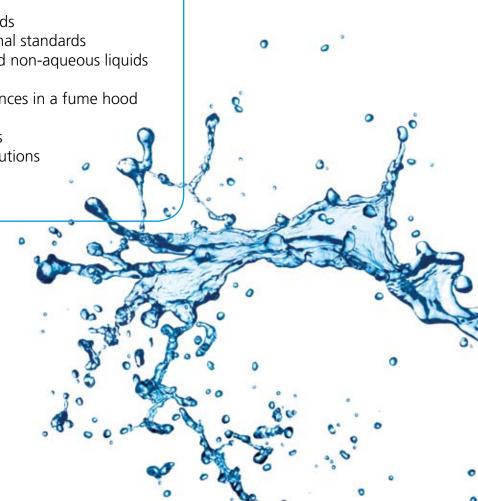
- XCHANGE® syringes are easily and quickly changed allowing them to be dedicated to individual liquids or methods to prevent possible cross-contamination of reagents.
- eVol[®] is ergonomic, comfortable and easy to use.
- eVol® is easily calibrated and calibration factors saved for each syringe, enabling laboratories to comply with stringent global laboratory standards (e.g. GLP, GMP, FDA).
- eVol® is suitable for use with volatile samples
- eVol® is programmable to store a laboratory workflow (up to 98 steps)
- eVol® is suitable for direct injection onto a chromatography column with a consistent flow rate.
- eVol®'s stainless steel needle enables direct injection through septa.

Coming Soon!

- Password protection options enabling standardization of work processes
- Variable speed of operation
- New syringe capacities

eVol® applications Applications for eVol® include:

- Preparation of calibration standards
- Preparation and addition of internal standards
- Precise dispensing of aqueous and non-aqueous liquids
- Routine dispensing
- Ergonomic operation with substances in a fume hood
- Sample dilution
- Instrument (GC and LC) injections
- Eliminating the need for Serial dilutions
- Micro titrations
- TLC spotting



The award winning eVol® improves the pace of laboratory processes while delivering improved accuracy and reproducibility.

The table below includes examples of how eVol® improves standard laboratory processes

PROCESS	Without eVol®	With eVol®	eVol® BENEFIT
Standard Preparation	Standards prepared in a large volume flask. From this standard aliquots are individually dispensed into autosampler vials.	Standards are made up directly in the vial, including the make up solvent.	 Less glassware usage Reduces waste fluid Significant time saving Improved accuracy and reproducibility
Addition of Standards	Small amounts of standard aspirated and dispensed into all samples before being transferred to an autosampler vial.	One aspiration and a fast series of repeated accurate dispenses directly into vials.	Significant time savingImproved accuracy and reproducibility
Delivery of derivatization agents	Laboratory staff required to work in a fume hood with potentially hazardous materials, to prepare combinations of derivatization agents in open vials.	Process completed with eVol® programmed to aspirate an amount of solvent or agent and then dispense aliquots into sealed vials, Single handed operation.	 Improved operator safety, lower spill and splash risk Ergonomic benefits behind fume hood screen Improved accuracy and reproducibility Less glassware use
Serial dilutions	Transfer of a small amount of solution to another container. Solvent added to achieve the required volume. This is repeated multiple times to obtain the required final accurate concentration.	One aspiration of the solution can be dispensed directly into the solvent to achieve the required accurate concentration.	 Complete workflow simplification Significant time savings Improved accuracy Less solvent required Less glassware used



eVol® – Electronic Syringe

Description		Part No.	
eVol® Electronic Syringe Starter Kit Contains: • eVol® Electronic Syringe (handle). • 3 eVol® Syringes – 5 μL, 50 μL and 500 μL. • Stand.	 Universal Charger. Comprehensive Instruction Manual. Disc with Manual in Multiple Languages. 	2910000	
eVol® NMR Edition Contains: • eVol® Electronic Syringe (handle). • 3 eVol® Syringes – 5 µL syringe is supplied with a 115 mm needle, 50 µL and 500 µL syringes are supplied with both 115 and 180 mm needles.	 Stand. Universal Charger. Comprehensive Instruction Manual. Disc with Manual in Multiple Languages. 	2910100	
eVol® Electronic Syringe (handle only)			

eVol® NMR Edition

eVol® NMR Edition features long stainless steel needles enable 'in tube' sample dilution and mixing, and recovery of samples facilitating reuse of NMR tubes. Contact SGE for details.

eVol® MEPS™ Syringes

The eVol® custom programming function enables MEPS™ (micro SPE) to be semi-automated and proofed before transition to fully automated platforms. Ask SGE for more information on how eVol® MEPS™ can improves your method development.

Accessories for eVol®



Part No. 2910010



Part No. 2910012 eVol® Universal Charger



Part No. 2910040 eVol® Replacement Battery



Part No. 2910030 eVol® Charging Stand

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