

Every One an Expert



eVol[®] XR **NMR** Edition

The world's first electronic syringe for NMR capillaries

- Improve results
- Save time
- Save money

Designed for the Specific Needs of NMR

The eVol[®] XR NMR Edition improves results, saves time, and money.

eVol NMR Edition, featuring long stainless steel needles, enables in tube sample dilution and mixing, and recovery of samples facilitating re-use of NMR tubes.

- Small sample quantities
- Requirement for very high levels of accuracy and reproducibility
- High cost of consumables
- Specialist samples and solvents



eVol[®]
2010 R&D 100
Award Winner



Precise, Intuitive, Operator-independent Dispensing

Every One an Expert

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

The result is a digitally controlled positive displacement dispensing system that can be programmed to reproducibly and accurately perform a wide variety of liquid handling procedures.

The eVol XR NMR Edition will improve your results and deliver time and cost savings.

- The programmable digital drive means liquid handling procedures are operator-independent, allowing more efficient workflow scheduling and a reduction in the re-analysis of incorrectly processed or false positive samples.
- XCHANGE analytical syringes are easily and quickly changed allowing them to be dedicated to individual liquids, and methods, to prevent possible cross-contamination of reagents.
- Unlike air-displacement devices, eVol is the perfect solution for accurately aspirating and dispensing both aqueous and non-aqueous liquids.
- eVol features a familiar touch wheel operator interface and a full-color screen. The clever menu allows all the functions to be accessed logically and quickly. The programming functions are intuitive and include help screens and prompts.
- eVol is ergonomic, comfortable, and intuitive to operate.

World's First Operator Calibrated Analytical Syringe



- To comply with stringent laboratory standards eVol **XR** can be easily calibrated to ensure accurate dispensing at all times. The gravimetric calibration procedure is simple and can be performed at operator defined intervals.
- Calibration factors can be stored for up to ten XCHANGE syringes and can be quickly loaded when the syringe is changed.

eVol[®] XR and NMR

eVol **XR NMR** Edition allows accurate manipulation of small volumes of NMR samples enabling dilution directly in the analysis tube – even in tubes with the smallest internal diameters.

eVol facilitates in-tube sample mixing and enables recovery of precious samples allowing them to be stored in alternative vessels (such as inexpensive vials) rather than being left in valuable tubes. These tubes can now be emptied using eVol, for washing and re-use.

NMR Laboratory Experience with eVol

eVol is being used at France's Laboratoire de Résonance Magnétique Nucléaire, Institut de Biologie Structurale (LRMN,IBS) with positive results.

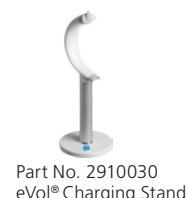
During method development the laboratory tests a large number of samples with high repetition. The screening procedures use very small sample volumes and involve titration of samples directly in NMR tubes. The laboratory has been impressed with eVol which has provided improved accuracy and decreased sample handling time.

"We use eVol for the preparation of multiple low-volume NMR tubes in parallel. eVol is reliable, accurate and practical for titrations and filling tubes with small diameters. eVol is easy and fast to use and dispenses samples accurately." Jérôme Boisbouvier - LRMN, IBS, Grenoble, France.

Starter Kit and Accessories



Description	Part No.
eVol XR NMR Edition Contains: <ul style="list-style-type: none"> eVol XR Electronic Syringe 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 XR Electronic Syringe (handle only)	2910205



eVol Needles and Syringes

Description	Needle Length (mm)	Needle Gauge	Needle OD (mm)	Needle ID (mm)	Needle Tip	Replacement Needle Part No.	Replacement Plunger Part No.	Pack Size	Part No.
Syringes									
5 µL (supplied without needle)	–	–	–	–	–	–	2910380	–	2910021
50 µL (supplied without needle)	–	–	–	–	–	–	2910382	–	2910023
500 µL (supplied without needle)	–	–	–	–	–	–	2910384	–	2910025
Replacement Needles (as supplied with kit)									
5 µL	115	25	0.5	–	Bevel	–	–	2	036920
50 µL	115	23	0.63	–	Bevel	–	–	5	038161
50 µL	180	23	0.63	–	Bevel	–	–	2	038138
500 µL	115	23	0.63	–	Bevel	–	–	5	039160
500 µL	180	23	0.63	–	Bevel	–	–	2	039138
Alternative Replacement Needles									
5 µL	115	25	0.5	–	Cone	–	–	2	036922
50 µL	115	25	0.5	–	Cone	–	–	2	038060
50 µL	180	23	0.63	–	Cone	–	–	2	038038
500 µL	115	23	0.63	–	Cone	–	–	5	039060
500 µL	180	23	0.63	–	Cone	–	–	2	039038

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