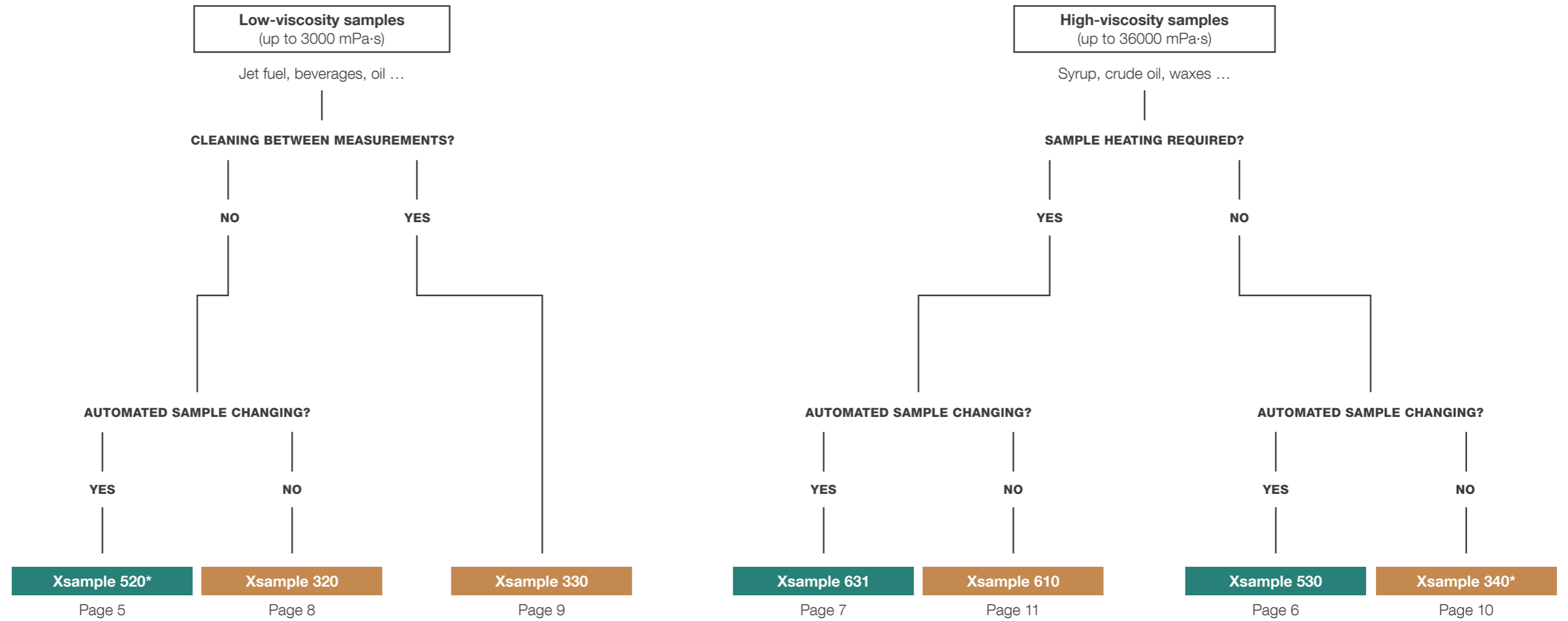


Automated Sample Changers

Xsample Series



Choose Your Xsample



Beverages

Chemicals

Pharmaceuticals

Petroleum

Flavors & Fragrances

Health Care

MULTI-SAMPLE CHANGERS

SINGLE-SAMPLE CHANGERS

* Chemical-resistance upgrade kit available

Your Sample, Our Solution

Anton Paar's Xsample series offers you more automation options than you will find anywhere else. The many different Xsample filling and rinsing units are combined with a wide variety of Anton Paar master instruments to provide the exact automation workflow you need.

From low to high viscosities, from corrosive samples to dissolved gases, from single measurements to high-throughput solutions, Anton Paar has the experience to say: We've been there. We've done that. We know how to automate it for you.

The Xsample sample changers take care of your sample and deliver reliable results at maximum speed.

- ✓ Up to three cleaning solvents to handle a wide variety of samples
- ✓ Safety shield to protect the workplace
- ✓ Variety of Anton Paar measuring instruments
- ✓ Inside and outside needle washing to prevent contamination
- ✓ 71-position customizable magazines for easy one-hand exchange
- ✓ Optional barcode reader inside for flawless workflows

FIND OUT MORE



www.anton-paar.com/apb-xsample

First-Class Filling in a Snap

Xsample 520

The user-independent filling of numerous Anton Paar master instruments is facilitated by stepless adjustability in combination with a smart pump lock. With a simple twist, the pump is adjusted and ready for operation. Xsample 520 automatically handles up to 96 samples, so unattended filling and measurements are possible, even during the night and on weekends. Releasing operators for more highly skilled tasks increases productivity in the lab. No sample cleaning is needed in between measurements, which increases sample throughput to a maximum; each sample is replaced by the next one. Adjustable filling speed enables optimized sample treatment for perfect measuring results.



Top-of-the-Line Cleaning Performance

Xsample 530

Thanks to controlled filling power, samples from plain water to highly viscous oils – up to 36000 mPa·s – are filled super fast. The 71-position magazine which allows unattended operation can be exchanged with just one hand to ensure easy handling and filling. The use of customer vials ensures seamless workflows in the lab. With up to three cleaning agents as well as inside and outside needle cleaning, Xsample 530 is ready to measure a great variety of samples in one run. High-quality mechanical components and a superior resistance to chemicals ensure increased uptime of the system and low maintenance costs.



No Limits for High Viscosities

Xsample 631

The Xsample 631 sample changer handles up to 36 heated sample positions for unattended and automated measurements. Improved heating leads to short heating periods and increased performance. Thanks to electrical heating, only low-maintenance costs arise as there is no need for periodical inspections of a water bath. Temperatures up to 95 °C are achieved in the system, and even challenging samples can be measured according to strict ASTM standards. The robust design ensures reliable and maintenance-free operation. A removable magazine with dedicated non-heated positions saves time by facilitating sample handling and even makes a second measuring system obsolete.



When Easy Operation Is a Must

Xsample 320

The new industrial-grade peristaltic pump of Xsample 320 enables measurements at the push of a button. Once the parameters are set, user-independent filling is possible, and, therefore, fewer handling errors occur with this sample changer designed for single samples. Operators are able to focus on more important tasks while filling and measurement are performed automatically. For the use of aggressive samples, all wetted parts of Xsample 320 are made of durable materials. The flexible filling speed of Xsample 320 guarantees optimized sample treatment, which leads to perfect measuring results.



Wide Range of Samples? No Problem

Xsample 330

The new industrial-grade peristaltic pump in combination with automatic cleaning makes Xsample 330 perfectly suitable for measuring single low-viscosity samples with widely different properties consecutively. Once measured, the sample is drained or recovered, and the system is automatically cleaned with up to two cleaning agents. A drying step is performed by the operator to perfectly prepare the measurement cell(s) for the next sample. Its flexible filling speed and adjustable cleaning procedures make Xsample 330 a highly efficient sample changer for single samples.



Compatible with **Different Syringe Sizes**

Xsample 340

Xsample 340 is a single-sample changer for different types of syringes. Perfect filling and excellent precision are achieved by the system's adjustable filling speed. Many years of flawless operation are guaranteed due to the straightforward, space-saving, and rugged design. Xsample 340 is automatically equipped with up to two cleaning agents, ensuring perfect measuring conditions regardless of the operator and sample. Xsample 340 is able to deal with aggressive and highly viscous samples, and a force sensor ensures safe operation under all conditions.



Ready for **Heavy-Duty Applications**

Xsample 610

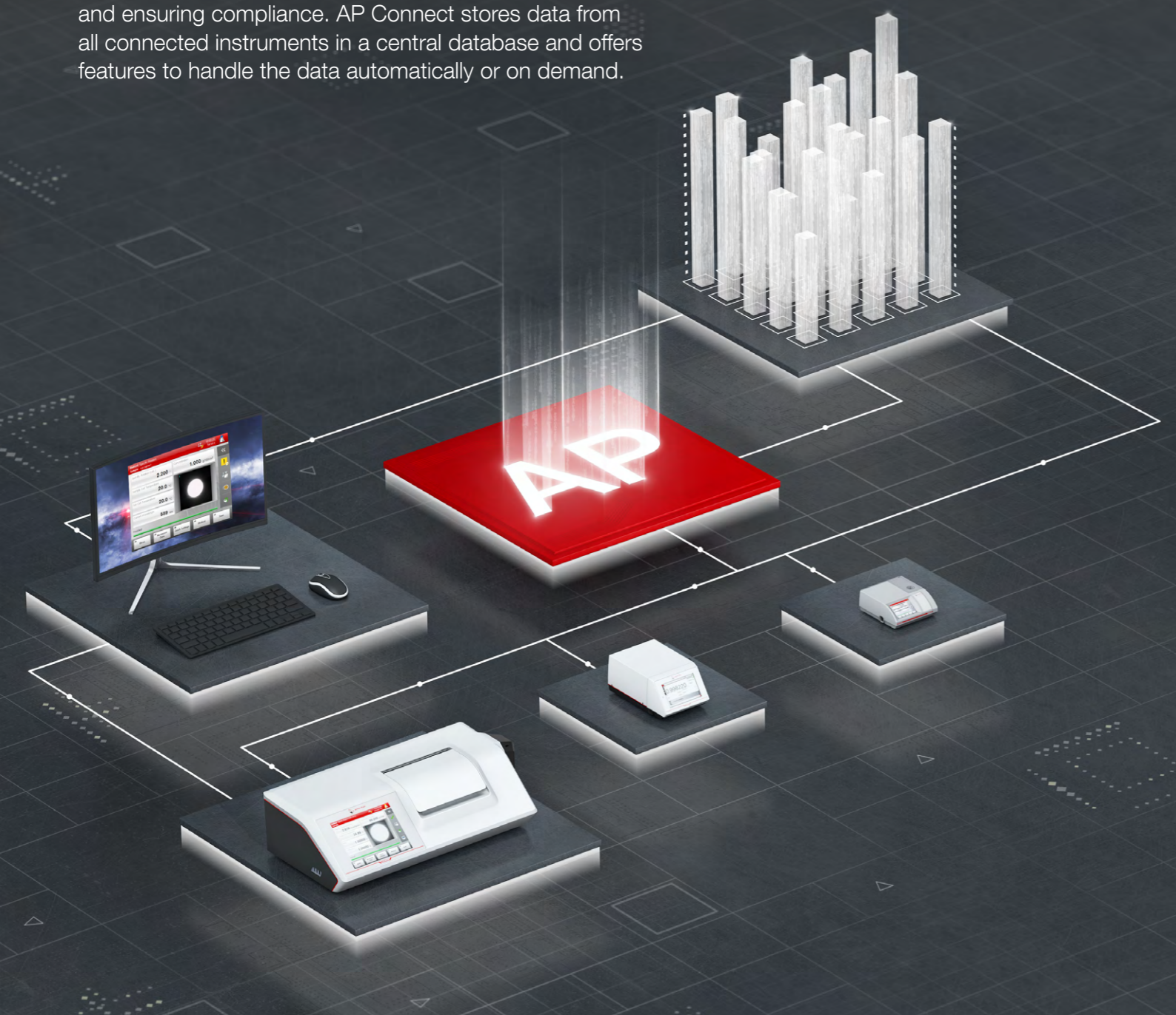
Xsample 610 is a heated single-sample changer supporting automated filling of highly viscous or even solid samples at room temperature. With its outstanding temperature range of up to 95 °C, the fastest measurement of crude oil, gels, and waxes is ensured in combination with density meters and viscometers from Anton Paar. Operators are relieved from handling hot syringes when filling the sample into the measuring instrument. Automated cleaning and drying guarantee an excellent user experience.



Solutions for Repetitive Processes

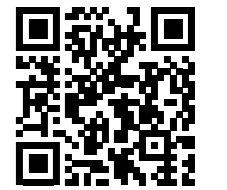
Automation helps you handle and transport samples as easily as possible. With an automated solution, you save time and money, and increase your productivity. Measure up to 96 samples with a viscosity ranging from high to low.

Automate your dataflow with AP Connect – a lab execution software solution for your paperless lab – connecting your instruments, communicating measurement information, and ensuring compliance. AP Connect stores data from all connected instruments in a central database and offers features to handle the data automatically or on demand.



Reliable. Compliant. Qualified.

FIND OUT MORE



[www.anton-paar.com/
service](http://www.anton-paar.com/service)

Our well-trained and certified technicians are ready to keep your instrument running smoothly.



Maximum uptime

Regardless of how intensively you use your instrument, we help you keep your device in perfect shape and safeguard your investment. For at least 10 years after the discontinuation of a device, we'll provide you with any service and spare part that you might need.



Warranty program

We're confident in the high quality of our instruments. That's why we provide a full 3-year warranty. Just make sure to follow the relevant maintenance schedule. You can also extend your instrument's warranty beyond its expiration date.



Short response times

We know that sometimes it's urgent. That's why we provide a response to your inquiry within 24 hours. We give you straightforward help from great people, not from bots.



A global service network

Our large service network for customers spans 86 locations with more than 600 certified service technicians. Wherever you're located, there's always an Anton Paar service technician nearby.

	Xsample 520	Xsample 530	Xsample 631	Xsample 320	Xsample 330	Xsample 340	Xsample 610
	↓	↓	↓	↓	↓	↓	↓
	Samples that can be filled by replacement without intermediate cleaning. Sample changer can be upgraded with a chemical-resistant needle and hoses for use with highly corrosive substances.	Samples that require automatic cleaning after each measurement. Sample recovery of expensive or problematic sample matter as well as multifilling measurements are supported.	Samples that cannot be filled at room temperature due to high viscosity and therefore require automatic cleaning after each measurement.	The sample changer is equipped with a chemical-resistant needle and hoses, and can also be used for highly corrosive substances.	Samples that require automatic cleaning after each measurement. Sample recovery of expensive or problematic sample matter as well as multifilling measurements are supported.	Samples that require automatic cleaning after each measurement. This sample changer can also be used for highly viscous samples.	Samples that cannot be filled at room temperature due to high viscosity and require automatic cleaning after each measurement.
Automation degree	Filling by replacement	Filling / cleaning	Heating / filling / cleaning	Filling by replacement	Filling / cleaning	Filling / cleaning	Heating / filling / cleaning

TECHNICAL SPECIFICATIONS							
Max. sample viscosity*	3000 mPa·s	36000 mPa·s	36000 mPa·s at 95 °C		3000 mPa·s	36000 mPa·s	10000 mPa·s at 95 °C
Max. temperature	-	-	95 °C (203 °F)	-	-	-	95 °C (203 °F)
Filling mode	Peristaltic pump	Piston pump			Peristaltic pump		Syringe
Samples/hour*	30	12	8	30	15	12	8
Sample volume	Approx. 20 mL	Approx. 3 mL	Approx. 4.5 mL		Approx. 10 mL		Approx. 3 mL
Magazine	24/48/96 positions	71/35 positions	36/56 positions			No	
Sample vials/packages	50 mL (12 mL optional)	12 mL, 20 mL, 40 mL	12 mL	-	-	2 mL, 5 mL, 10 mL	5 mL, 10 mL
Sample recovery	No	Optional	No	No	Yes	No	No

DIMENSIONS AND WEIGHT							
Dimensions (L x W x H) excl. master instrument	532 mm x 347 mm x 360 mm (20.9 in x 13.7 in x 14.2 in)	370 mm x 490 mm x 430 mm (14.6 in x 19.3 in x 16.9 in)	635 mm x 365 mm x 425 mm (25 in x 14.4 in x 16.7 in)	205 mm x 148 mm x 185 mm (8.1 in x 5.8 in x 7.3 in)	205 mm x 148 mm x 205 mm (8.1 in x 5.8 in x 8.1 in)	480 mm x 230 mm x 420 mm (18.9 in x 9.1 in x 16.5 in)	
Weight excl. master instrument	8.1 kg (17.9 lbs)	17.0 kg (37.5 lbs)	22.8 kg (50.3 lbs)	1.7 kg (3.7 lbs)	1.9 kg (4.2 lbs)	9.2 kg (20.3 lbs)	9.8 kg (21.6 lbs)

COMPATIBILITY / APPLICATIONS							
Main applications	Beverage, chemical	Beverage, chemical, petroleum, pharmaceutical, flavor and fragrance, R&D	Chemical, petroleum, R&D	Beverage, chemical	Beverage, chemical, pharmaceutical, R&D, flavor and fragrance	Beverage, chemical, petroleum, pharmaceutical, flavor and fragrance	Petroleum, chemical, healthcare
Master instruments	<ul style="list-style-type: none"> - DMA 4101/4501/5001 - DMA M - Soft Drink Analyzer M - DSA 5000 M - Beer Analyzing System - Alcoalyzer M - Lovis 2000 M - SVM 2001/3001 - Lyza 5000 	<ul style="list-style-type: none"> - DMA 4101/4501/5001 - DMA M - Soft Drink Analyzer - DSA 5000 M - Lovis 2000 M - SVM X001 	<ul style="list-style-type: none"> - DMA 4101/4501/5001 - DMA M - SVM X001 	<ul style="list-style-type: none"> - DMA 4101/4501/5001 - DMA M - Soft Drink Analyzer M - DSA 5000 M - Beer Analyzing System - Alcoalyzer M - Lovis 2000 M 	<ul style="list-style-type: none"> - DMA 4101/4501/5001 - DMA M - Soft Drink Analyzer M - DSA 5000 M - Lovis 2000 M 	<ul style="list-style-type: none"> - DMA 4101/4501/5001 - DMA M - Soft Drink Analyzer M - DSA 5000 M - Lovis 2000 M - SVM X001 	<ul style="list-style-type: none"> - DMA 4101/4501/5001 - DMA M - SVM X001

*Typical values, depending on application, temperature, and master instrument.

Trademarks Xsample (13856059), DMA (13414867), SVM (13411996), DSA (17423906), Alcoalyzer (15571581), Abbemat (1084545)

