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*The Evolution in Dissolution Testing*

Autosampler Sampilio X8

# Autosampler „Sampilio X8“

The result of your requests

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# Autosampler „Sampilio X8“

We heard your problems with autosampling



*Do you have the following problems with your existing Autosampler?*

- The samples taken with your autosampler are not comparable with the manual sampling?
- The cross-contamination between samples is too big?
- The possible intervals are not short enough for your desired sampling times?
- The overall handling with the autosampler is complex, the operating is complicated?
- The cleaning and maintenance of the autosampler is time-consuming?
- Your autosampler is not equipped for future tasks such as cooling / heating and direct offline / online transfer to UV / HPLC ?

***We have solved your problems with the Sampilio X8 - read more on this in the following!***

# Autosampler „Sampilio X8“

## Comparability with manual sampling!

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### *Comparability with manual sampling:*

- The Sampilio X8 uses a small-volume diaphragm pump per vessel. The stroke volume of these pumps is so low, that the first sampled volume is dispensed also at first in the HPLC vials / test tube as it would be also done by the manual sampling (first-in-first-out principle). A reversal of the sample volumes by time - as it is done with many syringe pumps - does not occur.
- With a minimal internal and external tubing length (and so minimal tubing volume) and the small stroke volume of the diaphragm pumps there is a minimal dead volume / Dwell volume - comparable to the manual sampling.
- The diaphragm pumps do not produce wrapped-off parts such as syringe pumps do, so you will not find any particle of seals, etc. in your samples.

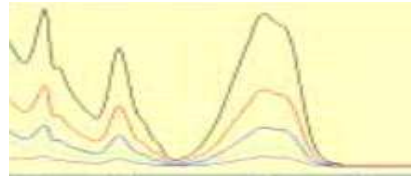


***The automatic sampling with the Sampilio X8 is comparable to manual sampling!***

# Autosampler „Sampilio X8“

Lowest cross-contamination!

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## *Lowest cross-contamination:*

- With a minimal internal and external tubing length (and so minimal tubing volume) and the small stroke volume of the diaphragm pumps there is a minimal possibility for cross-contamination between samples.
- The use of easily replaceable / disposable test tubes for flushing, the possibility for cross-contamination is also minimized.
- The diaphragm pumps can pump in both directions, so that the medium in the tubings is completely pumped back into the vessels without big loss (Media-recycling).



***The Sampilio X8 reduces the cross-contamination to an insignificant minimum!  
(typical <1 %)***

# Autosampler „Sampilio X8“

Short sampling intervalls!

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*short sampling intervalls:*



- The diaphragm pumps of the Sampilio X8 are very powerful and can achieve high flow rates, so that the flushing of the tubings, sampling and emptying the tubings can be done quickly. Upon request for very high flow rates there is a "High Volume Kit" available, that allows even quicker liquid handling.
- The low internal and external tubings (tubing lengths and so tubing volume) allow quick flushing and emptying between the sample collection.
- Since the diaphragm pumps of the Sampilio X8 can always pump in both directions, there are no time valve response times with additional rinsing and emptying of internal tubings.



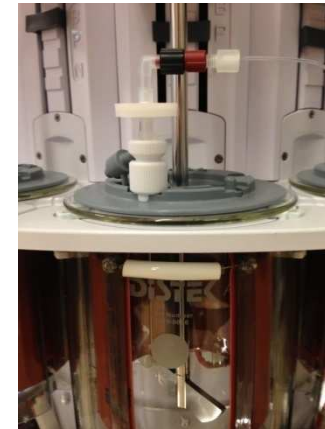
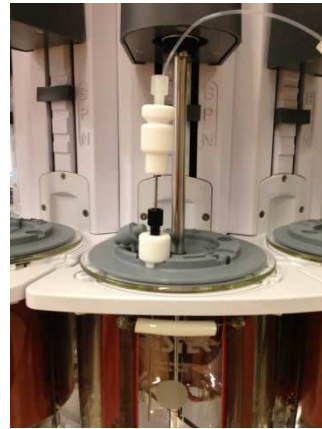
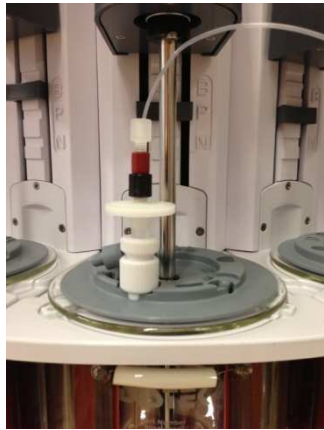
***The Sampilio X8 achieves small sampling intervalls of only 2 min\*!***

\* depends on flow rates, flushing volume, sample volume, etc.

# Autosampler „Sampilio X8“

Easy connection to dissolution baths!

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*easy connection to dissolution baths:*

- Easy connection: For each line there is a 3m long tubing coming out of the Sampilio X8. The UNF ¼" -28 screw head fittings used at the tubings end are a standard for easy connection to sample probes, syringe filters or luer adapters.
- There are different sample probes and stoppers available to fit all kinds of dissolution baths (DISTEK, Erweka, Sotax, etc.).

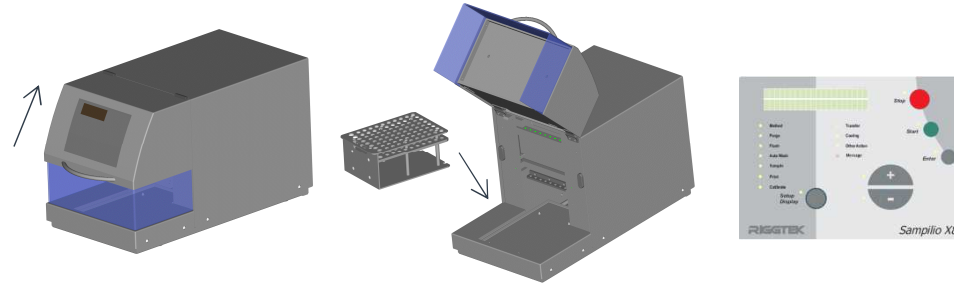


***The Sampilio X8 is easily to connect to dissolution baths!***

# Autosampler „Sampilio X8“

Easy operation and easy handling!

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*easy operation, easy handling:*

- Easy operation: Turn on the Sampilio X8. With only 5 keys and a easy menu structure you operate the Sampilio quickly and intuitively.
- Easy handling: Open the door of the Sampilio X8 and insert rack filled with HPLC-Vials or Test Tubes on the rack carriage and close the door again - the Sampilio is ready for your sampling method.



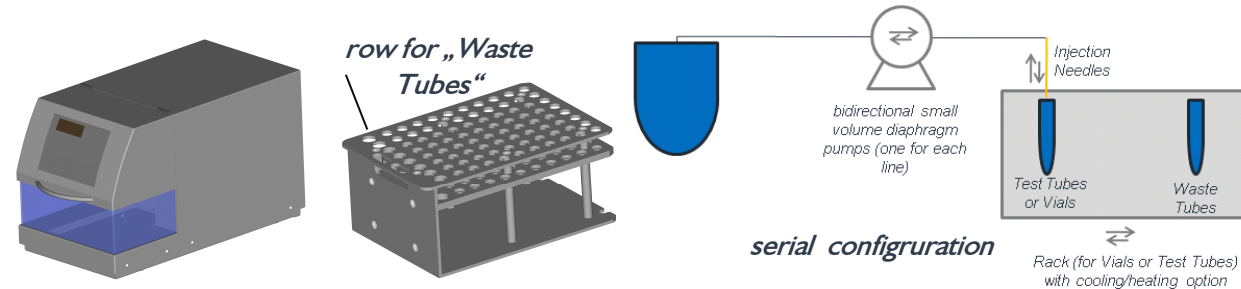
***The Sampilio X8 makes it easy for you - both in handling and with operation!***



# Autosampler „Sampilio X8“

## Easy cleaning and maintenance

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### *Easy cleaning and maintenance:*

- The housing of the Sampilio X8 is completely closed and therefore easy to clean
- For the flush volume so called "Waste tubes" are used. These are commercially available "Test Tubes / sample tubes", that are placed in the first row of the rack and after a sample method they can be easily replaced / thrown away. A cleaning of any tank is not necessary.
- Since the tubings and diaphragm pumps are installed in series without any valves in between, they can be cleaned with an automatic cleaning program easily and efficiently.
- The mechanism is kept simple and robust and does not require expensive maintenance.

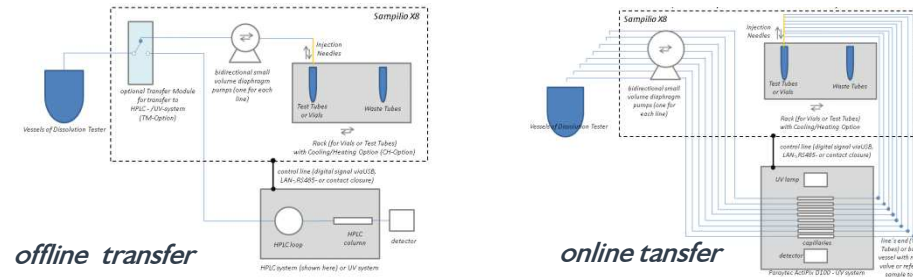


***The Sampilio X8 is easy to clean and to maintain!***

# Autosampler „Sampilio X8“

## Prepared for cooling and direct transfer!

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*prepared for software connectivity, cooling and direct transfer to UV/HPLC\*:*

- The Sampilio X8 has different interfaces to communicate with different units and softwares (Media Preparation Systems, dissolution baths, UV's, HPLC's, Data-Software)\*
- The Sampilio X8 can be ordered with an optional temperature module, that is able to cool or heat. <sup>2</sup> So you don't need to bring temperature-sensitive samples immediately after each sampling to a refrigerator.
- Because of the bidirectional diaphragm pumps per each vessel and an available Transfer Module the Sampilio X8 is prepared for all possible sample transfer tasks to UV or HPLC. Whether online or offline, both will be possible. <sup>3</sup>
- Any necessary accessory for the Sampilio X8 is easy to retrofit!



***The Sampilio X8 is prepared for all future tasks!***

\* not available yet <sup>2</sup> not available yet / reachable temperature depends on ambient temperature <sup>3</sup> to be customized

# Autosampler „Sampilio X8“

Demos of our Autosampler Sampilio X8

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*The Sampilio X8 -  
your step in the future and  
ahead of the competition!*

- *You have further questions?*
- *You would like to have a demo at your lab?*



**Contact us (RIGGTEK or your local  
representative) –**

- **per phone (+49 - 89- 74029555)**
- or
- **per Email ([support@riggtek.com](mailto:support@riggtek.com))**

