

STACKABLE CUVETTE

IMPROVE YOUR
CUVETTE SUPPLY



STACKABLE CUVETTE

SOME SORT - WE STACK

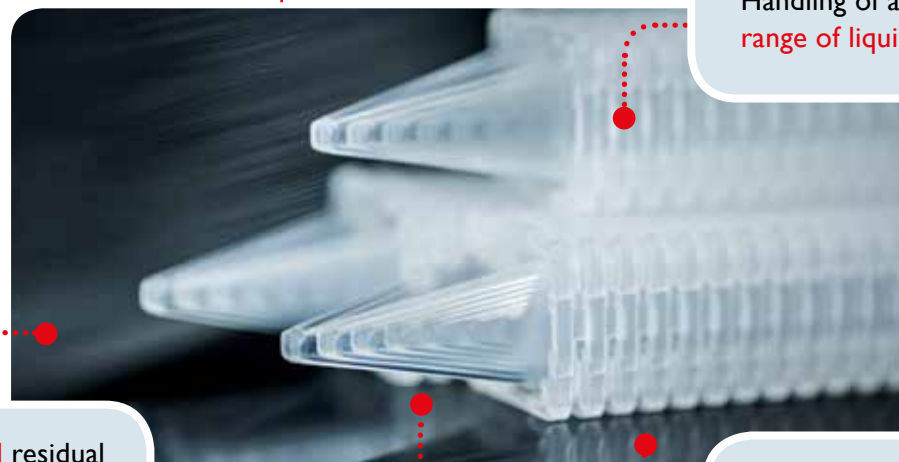
The supply of reaction vessels is an essential process step in medical devices. High demands are placed on the quality of these parts – since the smallest of deviations may have an impact on assay results.

STRATEC's Stackable Cuvette addresses the challenges of sophisticated cuvette supply in fully automated systems. STRATEC's solution offers reliability, low complexity and a compact design for both the feeding mechanism and packaging.

STRATEC's Stackable Cuvette is designed and produced to meet quality standards for cuvette supply via Cuvette Loading Tower.

YOUR REQUIREMENTS

- Reliable and robust cuvette supply
- Eliminate interference
- Cost control
- Small footprint



Handling of a **wide range of liquid volumes**

Minimal residual volume

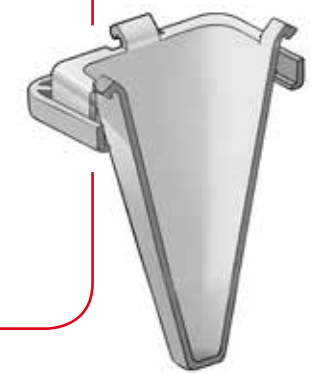
Reduced maintenance

Reduced footprint of cuvettes and feeding mechanism



Standard Cuvette

Most cuvettes are shaped with parallel or vertical walls and are not stackable due to their design. Therefore, these cuvettes are typically handled as bulk and need a complex mechanism in order to be sorted, oriented and fed into the system. Additionally, although these vials have a round or conical shaped bottom, these types of cuvettes resulting in high residual volumes.



Stackable Cuvette

The Stackable Cuvette has a four-fold symmetric design that supports a defined positioning, separation and automated handling, independent of the symmetry plane. The interlocking hook-and-eye design guarantees a compact packing and storage.

COMPLEMENTARY TECHNOLOGY: CUVETTE LOADING TOWER

The STRATEC Cuvette Loading Tower loads and stores Stackable Cuvettes into a system. An integrated separator then isolates a single cuvette, which is transferred to the subsequent module. A rotary shaft system enables continuous loading as required.

YOUR BENEFITS

- Validated and ready-to-integrate** system
- Lowest instrument foot print** usage
- Low-maintenance** cuvette handling system

SPECIFICATIONS

Capacity	10 stacks 50 cuvettes
Sensors	Sensors for cuvette resources (checks if stack is full/empty/partially full) Sensor for pre-loaded stack (checks if user has loaded a stack into the loading funnel)
Performance	Average throughput of 15 cuvettes/min.
Dimensions [H W D]	604 (depending on final funnel) 229 261 mm
Weight	5 kg
Max. push range (interface to subsequent module)	28.5 mm from separate/drop position
Power requirements	24 V _{DC} ± 5 % 3 A
Communication	RS232 USB TCP/IP



SPECIFICATIONS

STACKABLE CUVETTE

Intended use	Reaction vessel for fully automated analytical systems Single use
Material	Polypropylene medical grade
Color	Clear
Sterility	Non-sterile
Nominal volume	1 mL
Processing volume	800 μ L *
Residual volume	\leq 10 μ L *
Application	Purity level is targeted towards applications such as ELISA, CLIA and biochemical screening

PACKAGING QUANTITY

Single Unit	50 Stackable Cuvettes 10 stacks per bag 6 bags in a cardboard box
Shipping Unit	3000 Stackable Cuvettes (6x Single Unit)

ENVIRONMENTAL CONDITIONS

Shipping conditions	- 10 °C to + 60 °C for a maximum of 3 days Humidity: 10 - 90 %
Storage conditions	+ 2 °C to + 32 °C for a maximum of 3 years Humidity: 20 - 80 % Keep away from sunlight

COMPATIBILITY

Designed for Cuvette Loading Tower and KleeYa

LEGAL, REGULATORY

Compliant to ISO 13485 | All products are manufactured in a controlled environment, based on EN ISO 14644 (ISO 8), with premium raw materials.

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