

## STACKABLE CUVETTE

IMPROVE YOUR  
CUVETTE SUPPLY



# STACKABLE CUVETTE

## SOME SORT - WE STACK

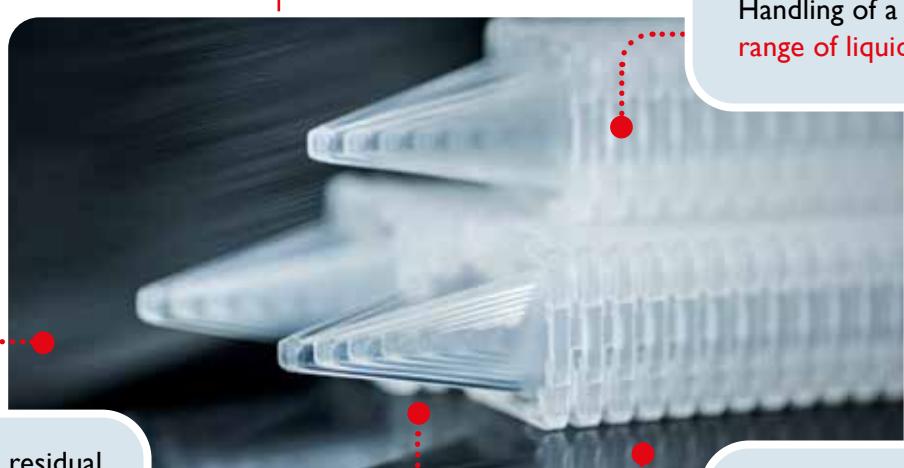
The supply of reaction vessels is an essential process step in medical devices. High demands are placed on the quality of these parts – since the smallest of deviations may have an impact on assay results.

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



Minimal residual volume

Reduced maintenance

Handling of a wide range of liquid volumes

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

<b>Capacity</b>	10 stacks   50 cuvettes
<b>Sensors</b>	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)
<b>Performance</b>	Average throughput of 15 cuvettes/min.
<b>Dimensions [H W D]</b>	604 (depending on final funnel)   229   261 mm
<b>Weight</b>	5 kg
<b>Max. push range</b> (interface to subsequent module)	28.5 mm from separate/drop position
<b>Power requirements</b>	24 V <sub>DC</sub> ± 5 %   3 A
<b>Communication</b>	RS232   USB   TCP/IP



# SPECIFICATIONS

## STACKABLE CUVETTE

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

## PACKAGING QUANTITY

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

## ENVIRONMENTAL CONDITIONS

<b>Shipping conditions</b>	- 10 °C to + 60 °C for a maximum of 3 days Humidity: 10 - 90 %
<b>Storage conditions</b>	+ 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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