

# DISPENSE CARTRIDGE

YOUR COMPACT SOLUTION FOR REAGENT STORAGE AND DISPENSING TASKS

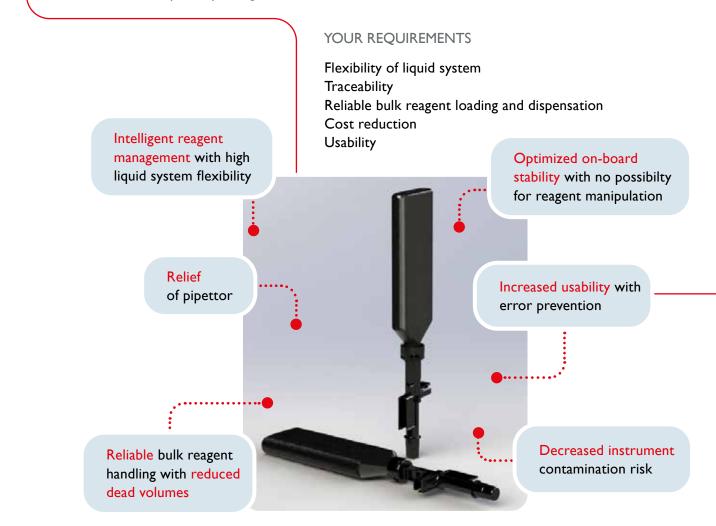
# DISPENSE CARTRIDGE

# FOR YOUR LIQUID HANDLING

Liquid handling is a core process in literally every automated analyzer. Frequently, liquid handling systems use pumps or sophisticated pipetting systems to deliver reagents or other fluids to test sites.

This in turn, limits flexibility and throughput of the complete system. In addition, using pipetting systems adds costs to systems where it might not be necessary.

STRATEC offers a unique solution, the Dispense Cartridge, which combines primary package and dispense system in one single unit. The Dispense Cartridge enables simple, reliable, robust and elegant non-contact liquid dispensing.



#### Increase shelf life by Bag in a Bottle (BIB) principle:

In order to achieve the utmost level of integrity during multiple dispenses without the addition of preservative agents, highly engineered packaging is mandatory. STRATEC designed a hybrid packaging, the Dispense Cartridge, suitable to fulfill these needs. The multilayer bottle consists of an outer rigid bottle layer (1) and flexible contracting bag layers (2-4). The outer rigid layer avoids squeezing and splashing of liquids during handling and allows easy positioning and orientation of the Dispense Cartridge. The flexible inner layers collapse during dispense and therefore form an airtight system with no evaporation risks.

Optimized for liquid handling, without additional preservative agents

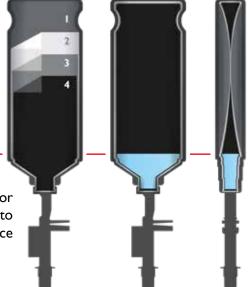
Realization of an airless system: protects from exchange with Oxygen and CO<sub>2</sub>

Opaque Dispense Cartridge especially designed for highly light sensitive reagents

#### Integrated dispense unit

Reduces the need for other liquid handling components or rendering them obsolete. Moving components susceptible to wear into a consumable minimises preventive maintenance and service costs.

#### Intelligent reagent management



Reagent management is an important consideration in choosing the perfect liquid supply and handling system for your automated instrumentation. The read/write RFID technology behind the Dispense Cartridge System automates inventory tracking.

#### COMPLEMENTARY TECHNOLOGY: DISPENSE CARTRIDGE ACTUATOR



The Dispense Cartridge Actuator is a specifically designed processing module to drive the plunger inside the Dispense Cartridge. A fork fixture hooks into the dispense unit and moves the plunger, thus making usual pump drives for dispensing redundant. Convenient insertion of the Dispense Cartridge automatically triggers the initialization and the system is ready for the first dispensing process in no time. The intelligent system automatically recognizes wrong positioning of Dispense Cartridge due to sophisticated read/write RFID technology. The Actuator ensures secure positioning via an integrated key lock feature.

#### **SPECIFICATIONS**

Stepper motor
113 25 125 mm
Approx. 150 g
24 VDC ± 5 %  800 mA <sup>+</sup>
RS232   USB   TCP/IP

<sup>1</sup>During dispense, 70 mA in stand-by mode

# SPECIFICATIONS

# GENERAL DESCRIPTION: DISPENSE CARTRIDGE BOTTLE

Intended use	Primary liquid package   Single use
Material	Bormed HE 7541 PH (inner product touching layer)
Color	Black (outer bottle layer)
Sterility	Non-sterile
Nominal volume	270 mL *
Weight	39 g ± 1.5 g *
Application	Purity level is targeted towards applications such as ELISA, CLIA and biochemical screening

## GENERAL DESCRIPTION: CARTRIDGE DISPENSER

Intended use	Liquid dispense in fully automated analytical systems   Single use
Material	Total Polypropylen PPM H250   Bormed HE 7541 PH   EPDM   Wacker Elastosil LR 3003/40
Color	Black
Sterility	Non-sterile
Weight	Approx. 10 g *
Application	Purity level is targeted towards applications such as ELISA, CLIA and biochemical screening
Volume range	Approx. 260 $\mu$ L *  On request: Adaption to dispense volumes ranging from 50 $\mu$ L to 450 $\mu$ L possible

## PACKAGING QUANTITY

Shipping Unit Bulk   150 Bottles   300 Dispensers
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## ENVIRONMENTAL CONDITIONS

Shipping conditions	0 °C to +50 °C for a maximum of 3 days Humidity: 10 to 90 %
Storage conditions	+2 °C to +32 °C for a maximum of 3 years Humidity: 20 to 80 % non-condensing   Keep away from sunlight

## COMPATIBILITY

Designed for STRATEC Reagent Rack and KleeYa

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