

REAGENT BOTTLE & DOCKING STATION

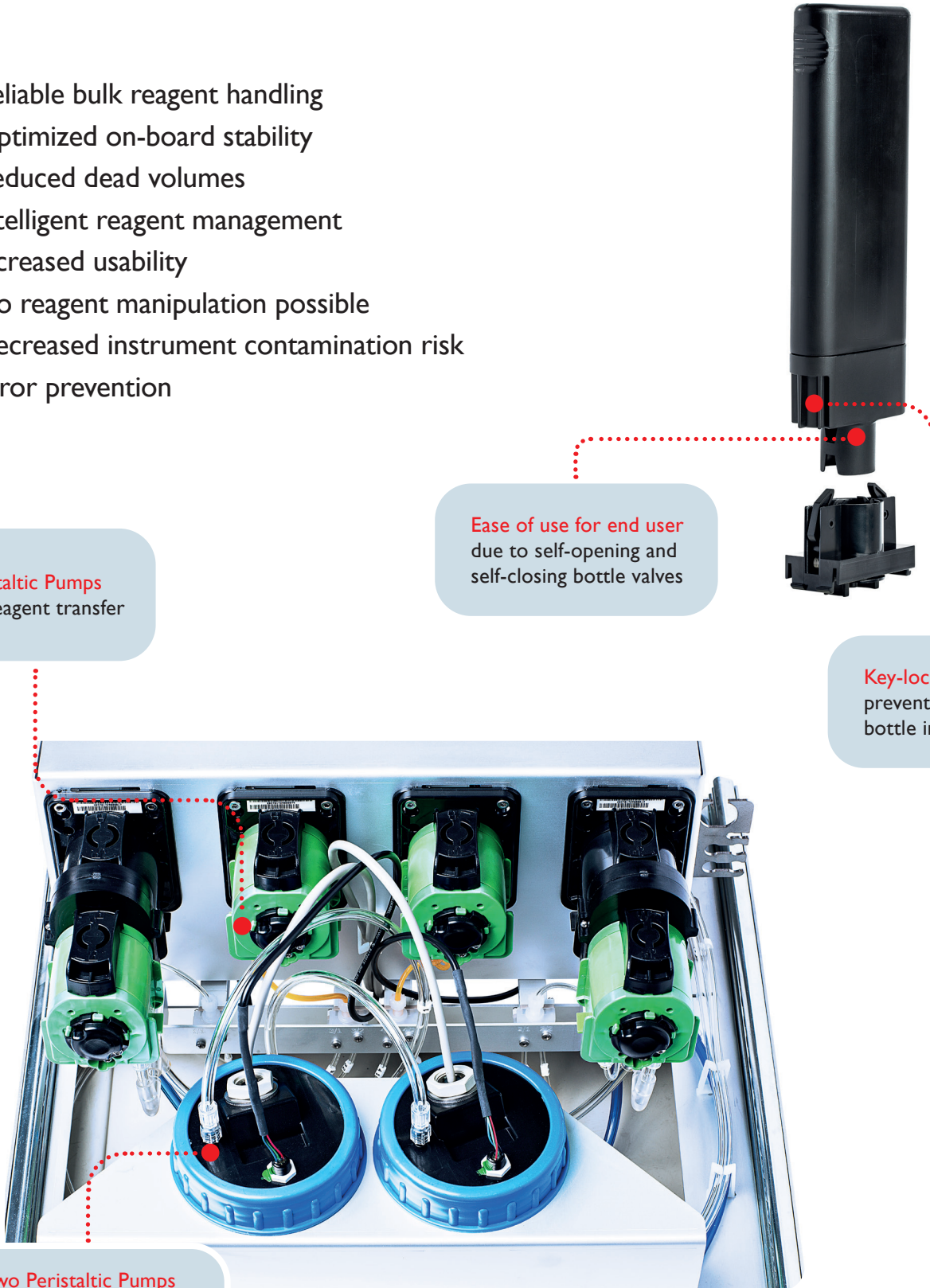
- Reliable bulk reagent handling
- Optimized on-board stability
- Reduced dead volumes
- Intelligent reagent management
- Increased usability
- No reagent manipulation possible
- Decreased instrument contamination risk
- Error prevention

Peristaltic Pumps
for reagent transfer

Ease of use for end user
due to self-opening and
self-closing bottle valves

Key-lock feature
prevents wrong
bottle insertion

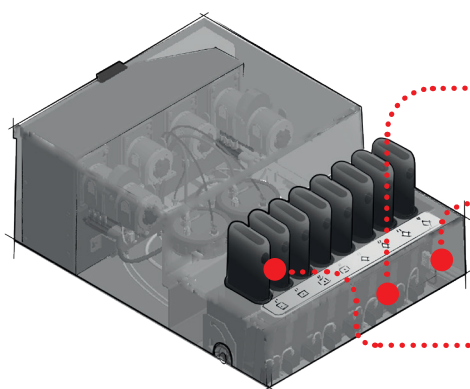
Two Peristaltic Pumps
with gearbox and
intermediate container
for dilution application



The Docking Station is a compact and efficient solution for reagent transfer and on-board dilution. Special valves and a key-lock principle prevent instrument contamination and wrong bottle insertion. The system is highly suitable for light and air sensitive liquids. Shelf-life and on-board stability is increased by a multilayer bag in the bottle design. Read/write RFID technology and RFID tags on bottles enable tracking of crucial and

lot-specific information like liquid type, use-by-date, lot number and the residual volume.

Continuous loading design leads to highest efficiency. Minimized priming is the result of the omission to flush the tube system in order to change liquids. Reliable and convenient on-board dilution with DI water allows the usage of concentrates, resulting in reduced operating, shipping and handling costs.



Read/write RFID technology for intelligent reagent management

Flood detection for maximum safety

Two positions with switch over valves enable continuous loading for each liquid type

SPECIFICATIONS

Set up	2 x Peristaltic Pumps, 2 x 1:10 dilution pumps, 4 x switch-over valves
Capacity	8 x docking stations for 4 different liquids, 2 x 300 ml intermediate containers
Consumable	275 ml nominal volume, PPC bottle material, HDPE bag in the bottle material
Fluidic performance	Dilution ratio deviation of wash buffer $\pm 15\%$, Peristaltic Pump delivery volume 8 ml/min, priming time less than 10 min
Dimensions [H W D]	271 455 700 mm
Weight	15 kg
Power requirements	24 V _{DC} $\pm 5\%$, 3 A
Communication	RS232, TCP/IP

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