



Figure: SmartFrame WA 002 (item number 04010) in a WALDNER Scala 1500 RWI.

Summary of Test Results for a Robustness Test in Accordance with EN 14175

SmartIntegrate and SmartRack®

Cooperation partners: **WALDNER & Better Basics**

Unlock Your Lab Potential

In reference to the standardised testing procedure in accordance with EN 14175, the retention capacity of a WALDNER Scala RWI-TA 1500 × 900 laboratory fume hood was examined with and without the integration of the SmartRack® and SmartFrame. Five measurement runs were carried out in each case and subsequently averaged.



BETTER BASICS
LABORBEDARF

WALDNER

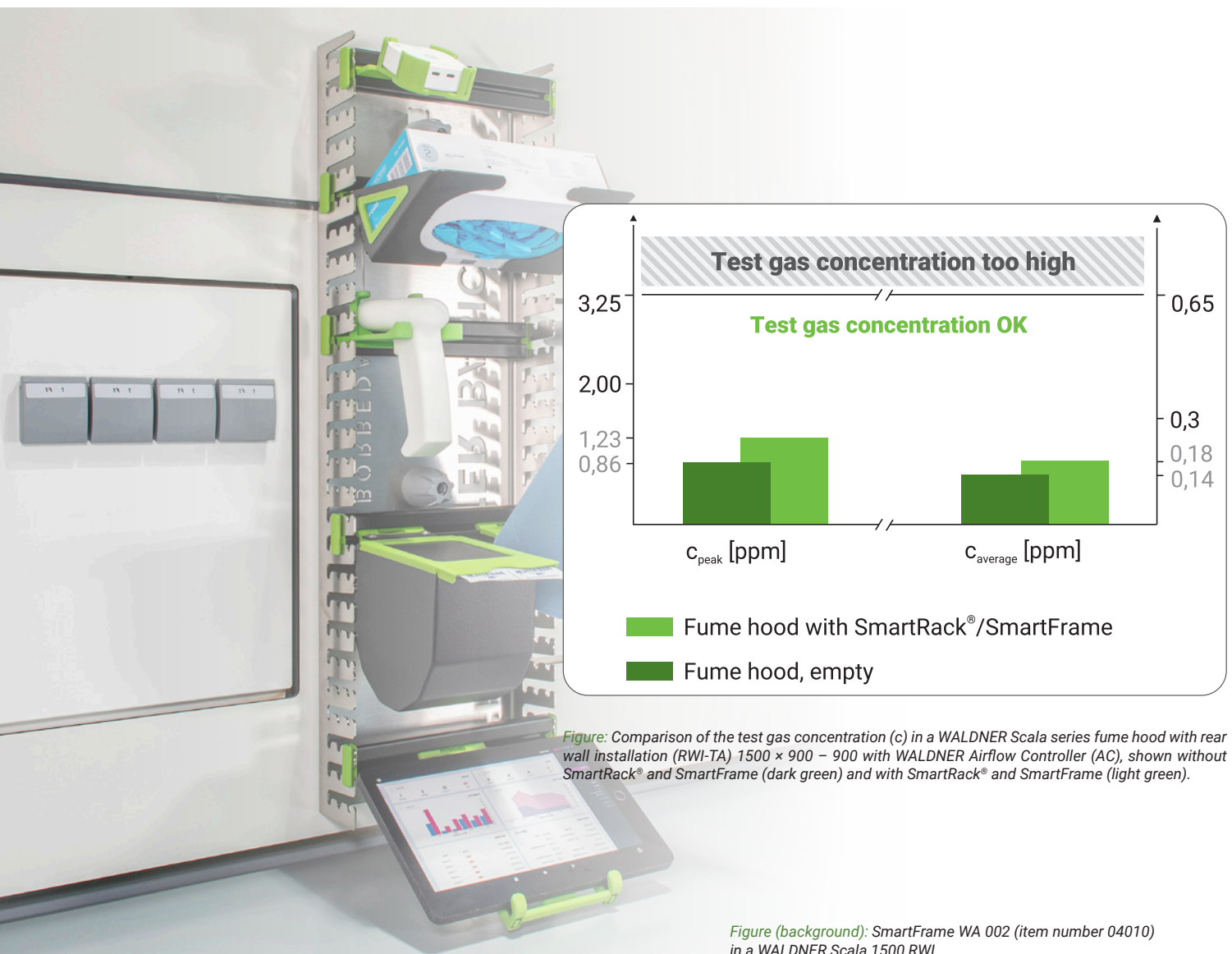
Test Summary – Robustness Test in Accordance with EN 14175

Test Procedure:

In reference to the standardised testing procedure in accordance with EN 14175, the retention capacity of a WALDNER Scala RWI-TA 1500 × 900 laboratory fume hood was examined with and without the integration of the SmartRack® and SmartFrame. Five measurement runs were carried out in each case and subsequently averaged.

Results:

- The averaged peak concentrations were 0.86 ppm without SmartRack® and 1.23 ppm with SmartRack® (limit value 3.25 ppm according to BG RCI).
- The averaged mean values were 0.14 ppm without SmartRack® and 0.18 ppm with SmartRack® (limit value 0.65 ppm according to BG RCI).
- Both values therefore remain well below the permissible limits.



Technical Evaluation

The minimal changes in test gas concentration caused by the SmartRack® and SmartFrame have **no significant impact on the safety-relevant function** of the fume hood. The extraction performance in accordance with EN 14175 is fully maintained and remains safe.



Figure: SmartFrame WA 002 (item number 04010) and SmartRack® classic (item number 01704) in a WALDNER Scala 1500 RWI.

Conclusion

Even when SmartRack® and SmartFrame are used simultaneously in a fully equipped WALDNER laboratory fume hood (including glassware and laboratory equipment), the **limit values of BG RCI are complied with in the robustness test in accordance with EN 14175, Part 3.**

The use of the SmartRack® and SmartFrame in the WALDNER Scala RWI-TA 1500 × 900 laboratory fume hood fulfils the requirements of the robustness test in accordance with EN 14175 with the BG RCI limit values and **does not present any significant deterioration in air technology.**

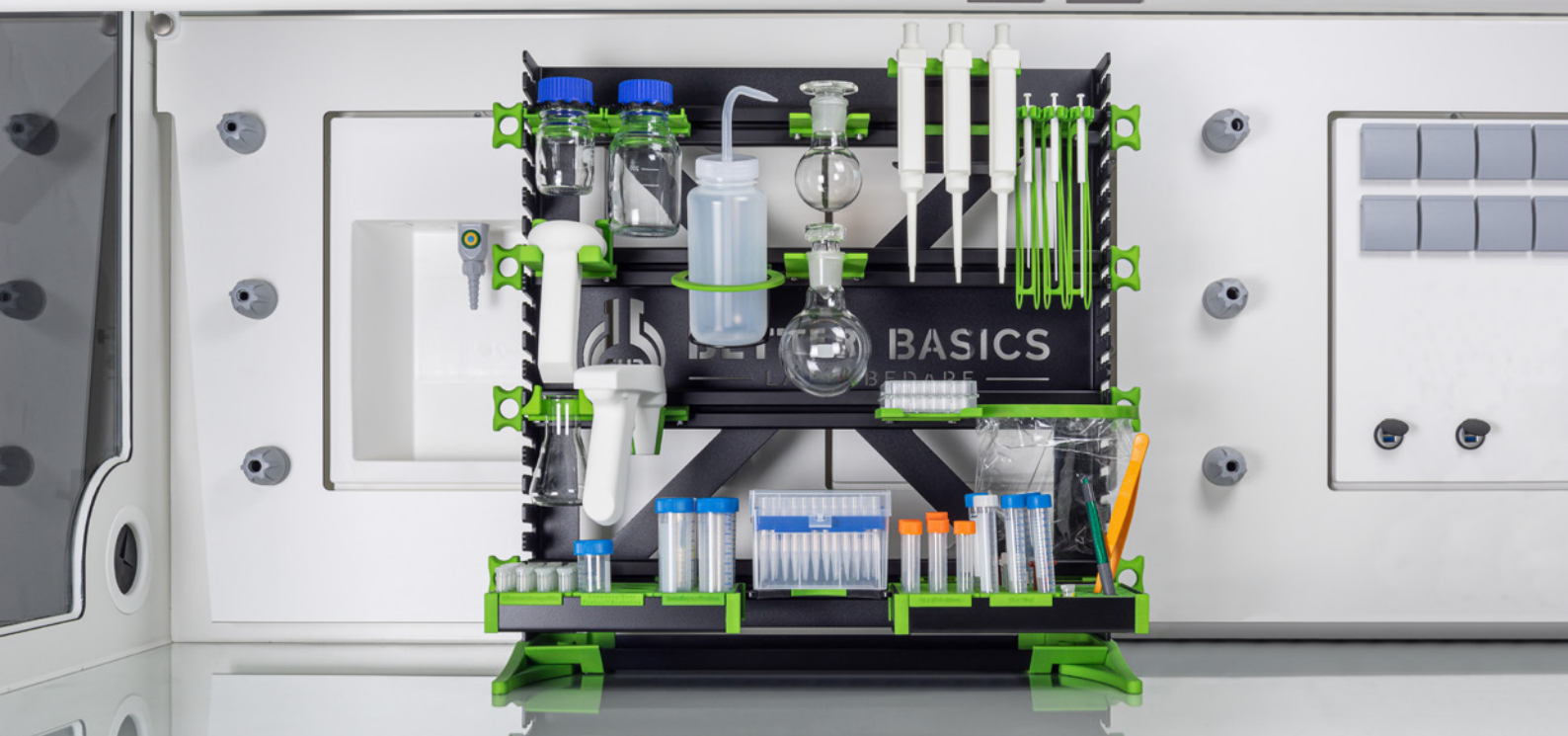


Figure: SmartRack® classic (item number 01704) in a WALDNER Scala Vision 1800 RWI.

www.Better-Basics-Laborbedarf.de

Anfrage@Better-Basics.de

Impress: Better Basics Laborbedarf GmbH, Loebtauer Str. 69, D-01159 Dresden
Email: info@better-basics.de • CEO: Mario Schneider
Commercial register: HRB 39524 • Court of Registration: Amtsgericht Dresden
VAT-N°: gem. § 27a UStG: DE327508812

+49 (0) 7522 986 202

www.waldner-gcs.de

labor@waldner.de

WALDNER Laboreinrichtungen SE & Co. KG
Haidoesch 1 • 88239 Wangen im Allgäu • Germany