

CLAIRE® LH – THINK TOGETHER

White Paper

*Together for more safety in the laboratory: The pipetting robot Liquid Handling Station from **BRAND GMBH + CO KG** integrated into the **claire® lh** safety cabinet from **Berner International**.*

In collaboration with BRAND GMBH + CO KG, Berner International has revised the concept of its safety cabinet. The main focus of "Think Together" was the integration of the LHS pipetting robot into the workspace of the claire® pure safety cabinet. The newly developed model is offered under the name claire® lh.

The integration of the Liquid Handling Station from BRAND GMBH + CO KG into a Berner safety cabinet of the claire® series results in a unique combination. Reliable sample processing in a GMP-A environment with personal and product protection tested in accordance with DIN EN 12469 is thus combined with innovative user-friendliness and high-quality carry-over protection.

The Liquid Handling Station from BRAND GMBH + CO KG offers high flexibility for changing pipetting tasks. Seven workstations in ANSI/SLAS format can be freely assigned, for example with single tubes, 8-tube PCR strips, reservoirs, 96-well and 384-well plates. For contact-free liquid dispensing, 1-channel and 8-channel liquid ends are available. For every application there is the right accessory, such as a shaking and temperature control module or cooling blocks.

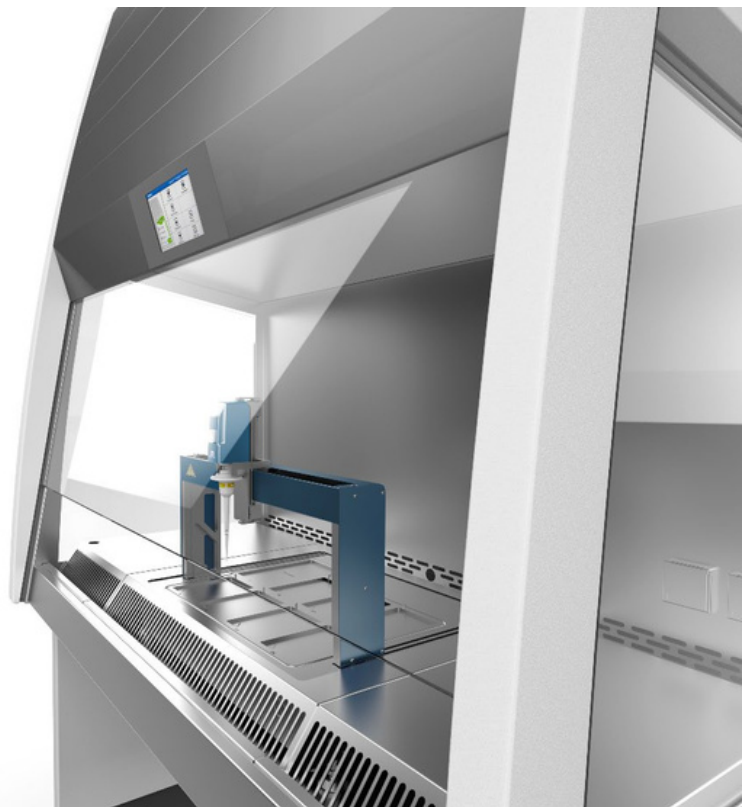


Figure 1: Working area of the claire® lh safety cabinet

The original claire® pure model also offers many advantages, including the new high-end touch display and the new filter technology. Thanks to the new HEPA cartridge filter, the noise level and energy consumption are very low.

The ergonomics of the 3-filter version have also been improved with quieter and brighter operating conditions and optimum legroom. Operating costs can be reduced by up to 84%¹ when operating in Eco mode thanks to the new flow technology and high-quality components such as the EC fans.

Berner International stands for tested safety for people and products, but also for quality and sustainability through Made in Germany.

With the new claire® lh, dual use is possible because the LHS can be inserted into the working plane and positioned individually in the workspace of the workbench. This innovative geometry guarantees the best possible personal and product protection.

In addition to the functions of the claire® pure, the claire® lh has extended functionalities for simplified and intuitive use of the pipetting robot. This includes the new setting of the front screen in pipetting mode, which prevents unintentional reaching in and guarantees additional personal protection.

A laptop connected to the claire® lh can control the methods so that no programming knowledge is required. The software takes over the control and carries out defined processes automatically. The LHS automatically logs the processes and checks them for inconsistencies. Compared to manual pipetting, the use of the LHS achieves a time saving of 70%.



Figure 2: claire® lh safety cabinet

The claire® lh therefore enables efficient processing of samples with high process reliability in a GMP-A environment.

In addition, the safety cabinet ensures personal and product protection in accordance with DIN EN 12469. The carry-over protection within the work area ensures reliable, reproducible results and thus contributes to quality assurance in your company.

The main areas of application for claire® lh are in microbiology, pharmacy and many areas of routine and research. These areas include the safe pipetting of microorganisms or chemicals, the particle-free distribution of liquids and the manufacture of products.

¹Comparison between the claire® pro B-2-130 and the FlowSafe® B-[MaxPro]