# TEAMWORK IN THE LABORATORY: CLAIRE® LH
## Two Systems in one – for your safety



The integration of the high-performance pipetting robot into the safety cabinet creates an innovative overall product: claire® lh. The combination of the liquid handling station from BRAND and the Berner safety cabinet unites the quality and the strenghts of both products. The claire® lh enables efficient processing of samples with high process reliability in a GMP-A enviroment. In addition, the safety cabinet guarantees personal and product protection in accordance to DIN EN 12469. The carry-over protection within the work area ensures reliable, reproducible results and thus contributes to quality assurance in your company.

Awards received for a model version of the claire® pro

# TECHNICAL INFORMATION
## claire® lh

| claire® lh | |
|---|---|
| Type of Device | Class II microbiological safety cabinet |
| Construction type | DIN EN 12469; NSF 49, Typ A2 |
| Marking | CE |
| Quality management system | DIN EN ISO 9001:2015 |
| Material workspace | 1,5 mm strong stainless steel „V2A", Material-No.: 1.4301 |
| HEP filter classes Recirculation and exhaust air filter | H 14 (Degree of separation: E ≥ 99,995%) acc. to DIN EN 1822-1 |
| Cleanroom class in the workspace | EG-GMP guideline: Class A; DIN EN ISO 14644-1: ISO-Class 5 |
| Vibration on worktops | ≤ 5 µm (RMS) |
| Illuminance level | 0 – 1.100 lux |
| Sound pressure level (ISO 11201) | 49,9/54.8 dB(A) (ECO/GMP) |
| Nominal voltage/-frequency | 230 V AC / 50 Hz |
| Power consumption (GMP/ECO) | 160 / 112 W |
| Protection class | Class 1 |
| Protection type | IP20 |
| Dimensions (WxHxD) | 1.352 x 2.008 – 2.277 x 815 mm |
| Workspace (WxHxD) | 1.257 x 640 – 700 x 600 mm |
| Workspace Opening (WxH) | 1.257 x 180 mm |
| Workspace height | 683 – 952 mm |
| Smallest insertion dimension (HxD) | 1946 x 790 mm |
| Weight | approx. 312 kg |
| Exhaust or supply air volume flow | approx. 330 m³/h |
| Exhaust air volume flow (with draft interuption) | 450 ± 50 m³/h |
| Displacement flow | 0,29 / 0,45 m/s (ECO/GMP) |
| Medium air inlet flow | 0,40 m/s |
| Air exchange rate in the workspace | 1175 /h od. 1889 /h (ECO/GMP) |
| Temperature increase in the workspace | 0,6 °C (after 4h of operation) |

| Liquid Handling Station by BRAND | |
|---|---|
| Liquid Ends | 1 Chanal Liquid Ends (SC), 8 Chanal Liquid Ends (MC) |
| Volume ranges | 1-Chanal Liquid Ends: 1 – 50 µl, 10 – 200 µl, 40 – 1000 µl 8-Chanal Liquid Ends: 1 – 50 µl, 20 – 300 µl, 40 – 1000 µl |
| Working postitions | Up to 8 positions: P2 – P8, P1 for waste containers |
| Quality management system | DIN EN ISO 9001:2015 |
| Weight | approx. 25 kg |
| Dimensions (WxDxH) | 595 x 485 x 530 mm |
| Operating temperature | +15 °C to +35 °C |
| Transport temperature | -20 °C to +65 °C |
| Line voltage | 100 – 240 V, 50/60 Hz |
| Fine-wire fuse | 2xT 2,5A H 250V |
| Interfaces | 1 USB |
| Power consumptions | max. 150 W |
| Protections class | Protection class I |
| Casing | Protection type IP20 |
| Safety standards | IEC 61010-1 |
| EMV-Compatibility | Radion interference supression and immunity according to DIN EN 61326-1 |
| Sound level | 46 dB |

tcps
Lab equipment and more

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# CLAIRE® LH – SAFETY CABINET
## Together for more safety in the laboratory

berner

# claire® lh

*think together*

## HIGH PERFORMANCE TOGETHER

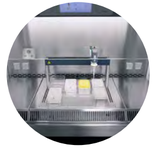
**Tested safety for people and products**

The claire® lh fulfills the requirments of DIN EN 12469. In addition, the CE declaration of conformity verifies personal, product and carry-over protection.
The high-quality overall product comprising safety cabinet and pipetting robot makes a significant contribution to sterile working under GMP-A conditions.



**Dual Use**

In addition to using the combination, the claire® lh can also be used without the Liquid Handling Station (LHS). This provides you with a class II microbiological safety cabinet for your laboratory work.



**Individual Positioning**

You design the individual workspace according to your wishes and requirements. Depending on the process and task, the liquid handling station can be flexbily positioned to the left, right or centre.



**Versatile Pipetting Robot**

Quick customisation of features to meet your requirements. The compact design enables up to eight workstations. These can be customised- from single containers to 384-well plates. The right accessories, such as shakers, are available for every application.



**Ergonomics**

Particularly quiet, bright operating conditions, indivdually adjustale work surface height and optimal legroom thanks to the particularly compact design of the first main filter stage.



efficient



integrated

## NEW USER FRIENDLINESS - PROVEN SERVICE



**Innovative Integration**

Thanks to the new design of the worktops, the Liquid Handling Station fits perfectly into the claire® lh. The innovative geometry ensures optimal personal and product protection.



**High-End-Touch-Display**

The innovative touch display enables quick and uncomplicated control of the safety cabinet and the operating modes of the Liquid Handling Station. Both systems are brought together and clearly displayed. The safety status is immediatly visible via the user interface.



**Intuitive Pipetting Process**

A laptop connected to the claire® lh controls the methods. Without any programming knowledge you can define the processes and have them carried out automatically. The software provides you with reliable information on every step of the method.



**Maximum Security**

The intelligent locking system guarantees your safety during the pipetting process. After loading the Liquid Handling Station, the system switches to pipetting mode: The front screen is closed to an extend that unintentional reaching in is not possible.



**Sustainability – Made in Germany**

Both the safety cabinet and the Liquid Handling Station are manufactured in Germany. Due to the high proportion of German suppliers, the supply chains are short. Assembly and technical testing are carried out directly by the manufacturer- guarenteeing you the „Made in Germany" label.



**Lifelong quality**

Berner Service supports the product throughout its entire life cycle. From commissioning to annual maintenance and technical support, we are always at your side with our expertise- for your safety cabinet an the Liquid Handling Station.