

**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	H 14 (Degree of separation: E ≥ 99,995%) acc. to DIN EN 1822-1
Recirculation and exhaust air filter	
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 interruption)	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)

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**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



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



# claire® lh think together

## HIGH PERFORMANCE TOGETHER

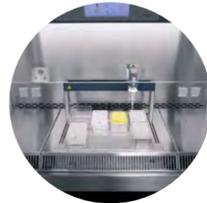
### Tested safety for people and products

The claire® lh fulfills the requirements 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 flexibly 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, individually adjustable 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 immediately 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 extent 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- guaranteeing 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 and the Liquid Handling Station.

