



7 models (-40°C to 250°C)

# Laboratory Circulation Bath

## HUFER

- Stability  $\leq 0.05^\circ\text{C}$
- programmable
- External Circulation System

This product is designed and produced for laboratory and research processes. The most important feature of this product is the internal and external circulation system. Also, its temperature range has made HUFER one of the most popular products.

Quality control laboratories, pharmaceutical industries, chemical industries and research centers are among the main users of this product.

## Benefits

The cooling technology of the cooling thermostats enables cooling performance through the entire temperature range of -40 up to 250°C. Emptying the heat transfer liquid is done by a drain connection on the rear side of the devices. Bath covers and pump kits are included in the standard equipment. HUFER is the cost-effective choice in the area of high-quality LOCROM thermostats. The temperature range from -40 to 250 °C covers the larger part of all basic thermostatic applications within the laboratory. This is exactly the working temperature range of the HUFER. This well-priced equipment range is made possible by minimizing any unnecessary features, with the focus on reliability and user-friendliness. The thermostats are suitable for operation with nonflammable liquids and for both internal and external thermostating tasks. A 1-point-calibration of the thermostats can be carried out by the user.



## Application examples

- Sample preparation for chemico-pharmaceutical analysis
- Quality control
- Precise temperature control in sensitive areas such as medical serology
- Versatile thermostating tasks in the field of biotechnology

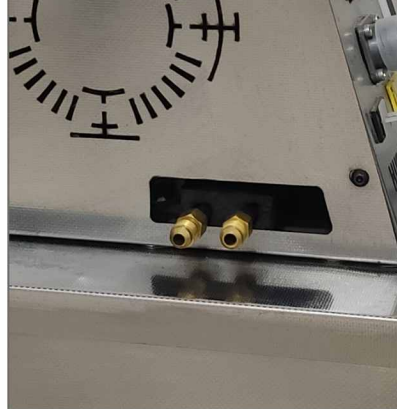
**How to Order ?**  
[www.locrom.com](http://www.locrom.com)

## HUFER Laboratory Equipments

Internal Circulation



External Circulation



■ **External Circulation**

The external circulation system can be used in pharmaceutical and chemical reactors and rotary evaporators.

■ **Internal Circulation**

The internal circulation system of this equipment can be used in laboratory, chemical and quality control processes

■ **Software management**

Internal calibration, temperature stability charts, temperature data recording and temperature cycles are features of software management.

## Features

*Reliable technology, modern design, favorable price*

■ **Ease of use**

The controls on the front side are easy to reach and use.

■ **Easy cleaning**

HUFER does not incorporate any interfering functional elements. The smooth surfaces can be cleaned quickly and without residue

■ **Easy handling**

A frontally integrated drain screw allows clean, safe, and effortless emptying of the baths.

■ **Some Basic Features**

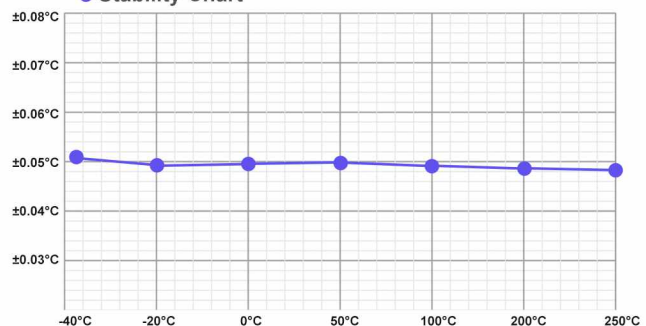
- Simple to Use & Outstanding Value
- Rugged Case
- Ramp to Set Temperature
- PC interface

■ **Some Advanced Features**

- Touch Screen LCD
- Support Languages
- Connect More Reference Probes
- Stability Graph
- USB Port



● **Stability Chart**



# HUFER

## technical Table & Charts

Parameters	Models						
	HUFER-40L	HUFER-25L	HUFER-40M	HUFER-25M	HUFER-25H	HUFER-40H	HUFER-250
HUFER Models							
Temperature range (°C)	-40°C to 50°C	-25°C to 100°C	-40°C to 120°C	-25°C to 150°C	-25°C to 200°C	-40°C to 200°C	30°C to 250°C
Temperature stability (°C)	≤ ±0.05°C						
Display resolution (°C)	0.01°C						
Internal sensor	Pt100 class AA						
External sensor connection's	1 * TC j & 1 * TC K & 1 * PT-100 (385)						
Temp controller	PID						
Display Accuracy (°C)	0.1°C						
Temperature Display	Touch screen LCD						
Integrated programmer	Up to 15 cycles						
Absolute temperature calibration	6 point calibration for bath / 3 point calibration for input channels						
Temperature rate (°C/min)	0.1°C/min to 10°C/min						
Digital interface	1 * USB / 1 * LAN						
Volume (Lit)	2, 4, 6, 8 ( can be customized)						
Min filling capacity	~ 0.5 L less than bath volume						
Viscosity max	30 cSt						
Circulation system	Internal & external (optional)						
Pump flow max	15 Lit/min						
Pump pressure max	0.2 bar						
Pump connection	M12 or M16						
Power & Voltage	≤ 2000 Watts / 220Vac 50Hz						
Max current	12A						
Body & bath tank material	Stainless steel 1mm						
Insulation	Cabinet is foamed-in-place with EPA compliant high density urethane foam						
IP code	IP-21						
Exterior dimensions (W*D*H) cm	35*50*80 (H=40cm in HUFER-250)						
Product weigh (no load)	≥ 15 Kg						
Warranty	1 Year						
Calibration certificate (optional)	According to international standards						

Model	Range / °C	Heat transfer liquid
HUFER-40L / 40M / 40H	-40 to 30	Ethanol or Silicone oil 20cSt
	30 to 90	Distilled water or Silicone oil 20cSt
	30 to 200	Distilled water or Silicone oil 20cSt
HUFER-25L / 25M / 25H	-25 to 30	Ethanol or Silicone oil 20cSt
	30 to 90	Distilled water or Silicone oil 20cSt
	90 to 200	Silicone oil 20cSt
HUFER-250	30 to 90	Distilled water or Silicone oil 30cSt
	90 to 250	Silicone oil 30cSt

Cooling and heating circulating baths are ideal for industrial or laboratory applications where a wide variety of temperature controls are needed. The reservoir in the circulating bath tempers samples along with integral pump that circulates fluid both internally and externally. We have a large selection of circulating water baths from rugged- and corrosion-resistant baths, for application temperatures from -28C to 150C, to standard open refrigerated baths with set values and predefined temperature limits.

In addition to their high quality, ease of use and easy-to-read display, HUFER baths offer a number of functions and features that enable efficient use in the laboratory. These include, among other things, an integrated timer and a specially designed outer edge, which automatically drains condensed fluid back into the bath. Another special feature is the included, removable platform. Sample containers, which are placed on the platform, are fully immersed and thus optimally tempered.