

Product data sheet

IC50E Immersion cooler

Modern immersion coolers with natural refrigerant for rapid cool-down of fluids

JULABO immersion coolers are mainly used for counter-cooling in conjunction with heating circulators or for rapid cooling of fluids to low temperatures. The modern IC Series works with natural, climate-friendly refrigerants. The IC50E immersion cooler was developed with a focus on high user-friendliness. Many helpful features such as an AutoStart function or a removable venting grid that can be detached without tools make daily work easier. The inclined OLED touch display is easy to read and ergonomic to operate. The intuitive menu navigation provides simple and quick access to all functions. Warnings and messages in easy-to-understand full-text language ensure safe handling of the units at all times. The magnetic probe holder enables flexible and stable attachment of the probe to magnetic surfaces, ensuring hassle-free positioning for various applications.



Product Features

- ✓ Rapid cooling of liquids down to low temperatures
- ✓ Counter-cooling of liquids in combination with heating circulators
- ✓ Preventing the use of precious tap water for cooling
- ✓ Ease of operation
- ✓ Dry ice substitution

Performance values

Order number including voltage version (230V/50Hz)

9651051.30003831

Cooling capacity 1 (Ethanol)

| °C | 20 | 0 | -20 | -40 |
|----|------|------|------|------|
| kW | 0.45 | 0.32 | 0.16 | 0.04 |

Note about natural refrigerants:

Temperature control units using natural refrigerants are often subject to regulatory requirements regarding the installation site, operation, transport or disposal of the units. If you have any questions, we will be happy to advise you.

Refrigerant stage 1

Refrigerant R1270

Filling weight g 37

Global Warming Potential for R1270 2

Carbon dioxide equivalent t 7.4E-5

Technical data

Available voltage versions

Order No. 9651051

Available voltage versions:

9651051.30003830 115V 60Hz (Nema N5-15 Plug) (R1270)

9651051.30003831 200-230V 50/60Hz (Schuko Plug - CEE 7/4 Plug Type F) (R1270)

9651051.30003833 230V 50/60Hz (CH Plug Type SEV 1011) (R1270)

9651051.30003832 230V 50Hz (UK Plug Type BS1363A) (R1270)

Cooling

Cooling of compressor 1-stage Air

Electronics

| | |
|----------------------------------|-------------|
| Interfaces | USB |
| External pt100 sensor connection | integrated |
| Temperature display | OLED |
| Temperature setting | Touchscreen |

Immersion cooler

| | |
|--|------------|
| Dimensions probe tube Length cm (L x Ø) | 120 |
| Immersion probe type | inflexible |
| Dimensions immersion probe cylindrical Length cm (L x Ø) | 10 |
| Dimensions immersion probe cylindrical Diameter cm | 5 |
| Dimensions probe tube cm (L x Ø) | 120 |
| Dimensions immersion probe cylindrical cm (L x Ø) | 10 x 5 |

Dimensions and volumes

| | |
|---------------------------------|--------------|
| Weight kg | 23.5 |
| Total dimensions cm (W x L x H) | 23 x 46 x 40 |
| Body dimensions cm (W x L x H) | 23 x 44 x 36 |

Temperature values

Working temperature range °C ¹ -50 ... +100

Temperature stability °C ±0.5

Ambient temperature °C +5 ... +40

Temperature display resolution °C 0.1

¹ JULABO immersion coolers are especially suitable for cooling applications and therefore cannot be used as heaters. The specification of the working temperature range above the ambient temperature corresponds to the maximum permissible temperature in the application for which the immersion cooler is approved. The lowest temperature of the working temperature range corresponds to the minimum temperature that the probe reaches at its surface.

Other

Sound pressure level dbA 55

Classification Classification I (NFL)

IP Code IP 21

Refer to www.julabo.com for more information regarding the entire JULABO product portfolio. Technical changes without prior notification. Images may deviate from the original. | Datasheet No.EN9651051/250519