

FT402 FT Immersion Cooler

JULABO Immersion Coolers are primarily used for counter-cooling when connected to a heating circulator, or for rapidly cooling fluids down to low temperatures. Take advantage of the space-saving design.

JULABO Immersion Coolers represent an economical alternative to conventional tap water cooling. The easy-to-use units are suitable for a variety of cooling applications.

Your advantages

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



Technical data

| Available voltage versions | | Cooling | |
|--|---|----------------------------------|--------------|
| Order No. | 9 650 842 | Cooling of compressor | 1-stage Air |
| Available voltage versions: | | | |
| 9 650 842.05 | 230V/50Hz (CH Plug Type SEV 1011) | | |
| 9 650 842.02 | 115V/60Hz (Nema N5-15 Plug) | | |
| 9 650 842.03 | 230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) | | |
| 9 650 842.04 | 230V/50Hz (UK Plug Type BS1363A) | | |
| Other | | Electronics | |
| Sound pressure level dbA | 61 | External pt100 sensor connection | integrated |
| IP Code | IP 21 | Temperature control | PID1 |
| | | Temperature display | LED |
| | | Temperature setting | Keypad |
| Immersion cooler | | Dimensions and volumes | |
| Immersion probe type | inflexible | Weight kg | 27 |
| Dimensions immersion probe cylindrical Length cm (L x Ø) | 12 | Dimensions cm (W x L x H) | 20 x 30 x 43 |
| Dimensions immersion probe cylindrical Diameter cm | 5 | | |
| Dimensions immersion probe cylindrical cm (L x Ø) | 12 x 5 | | |
| Temperature values | | | |
| Working temperature range °C | -40 ... +30 | | |
| Temperature stability °C | ±0.5 | | |
| Ambient temperature °C | 5 ... 35 | | |

| | |
|-----------------------------------|-----|
| Temperature display resolution °C | 0.1 |
|-----------------------------------|-----|

Performance values

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

230V/50Hz

Cooling capacity (Ethanol)

| °C | 20 | 10 | 0 | -20 | -40 |
|----|------|------|-----|------|------|
| kW | 0.45 | 0.36 | 0.3 | 0.14 | 0.03 |

Refrigerant R452A

Filling volume g 210

Global Warming Potential for R452A 2140

Carbon dioxide equivalent t 0.449

115V/60Hz (Nema N5-15 Plug)

115V/60Hz

Cooling capacity (Ethanol)

| °C | 20 | 10 | 0 | -20 | -40 |
|----|------|------|-----|------|------|
| kW | 0.45 | 0.36 | 0.3 | 0.14 | 0.03 |

Refrigerant R449A

Filling volume g 112

Global Warming Potential for R449A 1397

Carbon dioxide equivalent t 0.156

230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F)

230V/50Hz

Cooling capacity (Ethanol)

| °C | 20 | 10 | 0 | -20 | -40 |
|----|------|------|-----|------|------|
| kW | 0.45 | 0.36 | 0.3 | 0.14 | 0.03 |

Refrigerant R452A

Filling volume g 210

Global Warming Potential for R452A 2140

Carbon dioxide equivalent t 0.449

230V/50Hz (UK Plug Type BS1363A)

230V/50Hz

Cooling capacity (Ethanol)

| °C | 20 | 10 | 0 | -20 | -40 |
|----|------|------|-----|------|------|
| kW | 0.45 | 0.36 | 0.3 | 0.14 | 0.03 |

Refrigerant R452A

Filling volume g 210

Global Warming Potential for R452A 2140

Carbon dioxide equivalent t 0.449

All Benefits



JULABO. Quality.
Highest standards of quality for a long product life.



Green technology.
Development consistently applied environmentally friendly materials and technologies.



Satisfied customers.
11 subsidiaries and more than 100 partners worldwide guarantee fast and qualified JULABO support.



100% Checked.
100% testing. 100% quality. Each JULABO Circulator undergoes thorough quality testing before leaving the factory.



Quick start.
Individual JULABO consultation and comprehensive manuals at your disposal.



Services 24/7.
Around the clock availability. You can find suitable accessories, data sheets, manuals, case studies, and more at www.julabo.com.