

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.

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
- Compact design, small footprint
- Ease of operation
- Dry ice substitution



Performance values

Order No.	9650842.03				
Cooling capacity (Ethanol)					
°C	20	10	0	-20	-40
kW ¹	0.45	0.36	0.3	0.14	0.03
Refrigerant stage 1					
Refrigerant	R452A				
Filling weight g	210				
Global Warming Potential for R452A	2140				
Carbon dioxide equivalent t	0.4494				

¹ Performance specifications measured in accordance with DIN 12876. Cooling capacities up to 20 °C measured with ethanol; over 20 °C with thermal oil unless otherwise specified. Performance specifications apply at an ambient temperature of 20 °C. Performance values may differ with other bath fluids.

Technical data

Available voltage versions		Cooling	
Order No.	9 650 842	Cooling of compressor	1-stage Air
Available voltage versions:			
9650842.05	230V/50Hz (CH Plug Type SEV 1011) (R452A)		
9650842.02	115V/60Hz (Nema N5-15 Plug) (R449A)		
9650842.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R452A)		

9650842.04	230V/50Hz (UK Plug Type BS1363A) (R452A)
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Other	
Sound pressure level dbA	61
IP Code	IP 21

Electronics	
External pt100 sensor connection	integrated
Temperature control	PID1
Temperature display	LED
Temperature setting	Keypad

Immersion cooler	
Immersion probe type	inflexible
Dimensions immersion probe cylindrical Length cm (L x Ø)	12
Dimensions immersion probe cylindrical Diameter cm	5
Dimensions immersion probe cylindrical cm (L x Ø)	12 x 5

Dimensions and volumes	
Weight kg	27
Dimensions cm (W x L x H)	20 x 30 x 43

Temperature values	
Working temperature range °C	-40 ... +30
Temperature stability °C	±0.5
Ambient temperature °C	+5 ... +35
Setting the resolution of the temperature display °C	0.1

All Benefits



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



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



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



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



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



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