

## FD200 Flow-through cooler

JULABO flow-through coolers are designed for applications below ambient temperature in combination with heating circulators. Advantages are low energy requirements and the avoidance of unnecessary cooling water consumption. Easy handling and a small footprint are additional positives.

JULABO flow-through coolers are an economic alternative to customary cooling with tap water. The devices are designed for use in an existing loop circuit, e.g. heating circulator with circulating pump.

### Product features

- For applications near ambient temperatures
- Integrated freezing protection
- Preventing the use of precious tap water for cooling
- Compact design, small footprint
- Ease of operation
- Low energy requirement



### Performance values

Order No.	9655825.03	
Cooling capacity (Ethanol)		
°C	20	10
kW <sup>1</sup>	0.22	0.18
Refrigerant stage 1		
Refrigerant	R134a	
Filling weight g	80	
Global Warming Potential for R134a	1430	
Carbon dioxide equivalent t	0.1144	

<sup>1</sup> 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.	9 655 825	Cooling of compressor	1-stage Air
Available voltage versions:			
9655825.02	115V/60Hz (Nema N5-15 Plug) (R134a)		
9655825.03	230V/50Hz (Schuko Plug - CEE 7/4 Plug Type F) (R134a)		
9655825.05	230V/50Hz (CH Plug Type SEV 1011) (R134a)		

Other		Dimensions and volumes	
IP Code	IP 21	Weight kg	16
		Dimensions cm (W x L x H)	18 x 27 x 39
Temperature values			
Working temperature range °C	+10 ... +30		
Ambient temperature °C	+5 ... +35		

### 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](http://www.julabo.com).