



## Product Data Sheet FC1600S Recirculating Cooler

[Print Data Sheet](#)

### Product Image



### Order Information

**Model:** FC1600S  
**Order no.:** 9600163

Available mains power:  
230V / 50Hz  
230V / 60Hz

### Downloads

not available

### Similar Models

These models could also be interesting for you:

**FC1600T**  
**FC1600S**  
**FC1200S**

### Sales & Support:

+49 7823 51-190

Monday to Friday  
7:30 am - 17:00 pm

JULABO Labortechnik GmbH  
Eisenbahnstrasse 45  
77960 Seelbach/Germany  
Phone +49 7823 51-0  
Fax +49 7823 2491  
[info@julabo.de](mailto:info@julabo.de)  
[www.julabo.de](http://www.julabo.de)

Technical changes reserved.  
Pictures may differ from original.

Distributed by:



**Carl Stuart Limited**

ADVANCED APPLIED TECHNOLOGIES

**Contact Us:**  
Irl Ph: 01 4523432  
UK Ph: 08452 30 40 30  
Web: [www.carlstuart.com](http://www.carlstuart.com)  
Email: [info@carlstuart.com](mailto:info@carlstuart.com)

### Description

Recirculating Cooler for environmentally friendly cooling

Today, tap water is still often used for continuous cooling tasks. Is this acceptable with respect to environmental responsibility? Recirculating coolers of the JULABO TopLine stand for environmental consciousness that became a subject of growing importance in the recent years. The instruments offer an economical solution for cooling applications avoiding expenses for tap water and waste water disposal. The JULABO recirculating coolers of the Economy Line and TopLine have a compact design and fit under a lab counter. The bright MULTI-DISPLAY (LED) is visible from across a lab and gives instant information on actual and setpoint temperatures. Self-test after switch-on, reciprocal sensor monitoring, pump motor and compressor overload protection as well as complete shut-down in case of an alarm offer unequalled safety. Additional protection is ensured by high and low temperature warning functions as well as freezing protection and dry-running protection. These features ensure stable working temperatures, constant pressure of the circulating pump and avoid contamination in the cooling loop. Featuring various electrical connections, the TopLine models fulfill the requirements of modern laboratories.

### Advantages

- o Adjustable ratio for feed/return temperatures
- o Easy filling system located at the front
- o Activation of pump for filling
- o Bright MULTI-DISPLAY (LED)
- o Upper and lower temperature warning functions with interval tone
- o Integrated freezing protection and dry-running protection
- o Rapid and easy operation via seamless, splash-proof keypad
- o Liquid level indication on the front
- o Self-test, reciprocal sensor monitoring, pump motor and compressor overload protection
- o Complete shut-down with audible signal in case of an alarm
- o Removable venting grid for simplified removal of dust
- o ATC function for simple correction of temperature variations
- o RS232 interface for on-line communication (LIMS capability)
- o High temperature stability
- o Integrated heater with 1.2 kW capacity
- o Pump pressure gauge 0 to 2,5 bar

### Technical Specifications

Working temperature range	-15 ... 80 °C
Temperature control	PID
Temperature stability	±0.2 °C
Display	2 x LED
Display resolution	0.1 °C
Integrated programmer	not available
Heater capacity	1200 W
Cooling capacity	20 10 5 -10 °C 1550 1150 900 360 W
Refrigerant	R134a
Pump capacity	Pressure: 1200 mbar Flow rate: 22 l/min
Digital interfaces	RS232
Filling volume	8 ... 11 Liters
Dimensions (W x L x H)	46 x 61 x 49 cm
Weight	66 kg
Ambient temperature	5 ... 40 °C
Classification according to DIN 12876-1	-

### Miscellaneous

Included: Barbed fittings for tubing 8 and 12 mm ID  
Pressure pump capacity with tubing 8 mm ID: 15 l/min  
Convenient filling after removing the venting grid