



## Product Data Sheet

### FC1600T Recirculating Cooler

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#### Product Image



#### Order Information

**Model:** FC1600T

**Order no.:** 9600166

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

#### Similar Models

These models could also be interesting for you:

**FC1600S**  
**FC1200T**  
**FCW2500T**

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#### 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 4 bar
- o Connection for external 4-lead Pt100 sensor
- o Analog setpoint/programmer input (0 to 20 mA / 0 to 10 V)
- o Temperature recorder output (0 to 20 mA / 0 to 10 V)

#### 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    0    °C 1450 1050 500    W
Refrigerant	R134a
Pump capacity	Pressure: 3500 mbar Flow rate: 28 l/min
Digital interfaces	RS232
External Pt100 sensor connection	available
Filling volume	8 ... 11 Liters
Dimensions (W x L x H)	46 x 61 x 49 cm
Weight	67 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: 24 l/min Convenient filling after removing the venting grid