

FC1600S Compact Recirculating Cooler

Models for heating and cooling applications, up to 2.5 kW cooling capacity

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.



Made
in Germany

Your advantages

- Adjustable ratio for feed/return temperatures
- Easy filling system located at the front
- Activation of pump for filling
- Bright MULTI-DISPLAY (LED)
- Upper and lower temperature warning functions with interval tone
- Integrated freezing protection and dry-running protection
- Rapid and easy operation via seamless, splash-proof keypad
- Liquid level indication on the front
- Self-test, reciprocal sensor monitoring, pump motor and compressor overload protection
- Complete shut-down with audible signal in case of an alarm
- Removable venting grid for simplified removal of dust
- ATC function for simple correction of temperature variations
- RS232 interface for on-line communication (LIMS capability)
- High temperature stability
- Integrated heater with 1.2 kW capacity
- Pressure Indicator 0...1.6 bar

Technical Data

Order No.	9600163
Model series	FC Series
Category	Recirculating Coolers
Working temperature range (°C)	-15 ... +80
Temperature stability (°C)	0.2
Setting / display resolution	0.1 °C

Temperature Display	2x LED
Cooling capacity (Medium Ethanol)	<div>°C 20 0 -10</div> <div>kW 1.55 0.65 0.36</div>
Pump capacity flow rate (l/min)	22
Pump capacity flow pressure (psi)	17.4
Pressure indicator (psi)	0...2.5
Pump connections	M16x1
Barbed fittings diameter (inner dia. / mm)	8 / 12
Filling volume liters	8 ... 11
Refrigerant	R134a
Digital interface	RS232
Ambient temperature	5...40 °C
Dimensions W x L x H (inch)	18.1 x 24 x 19.3
Weight (LBS)	146
Included with each unit	2 Barbed fittings for tubing 8 and 12 mm ID. (Pump connections M16x1 male)
Cooling of compressor	Air
Power requirement V / Hz / A	230/60/14
Available voltage versions	<div>230 V / 50 Hz</div> <div>230 V / 60 Hz</div>

Characteristics

Display



Easy to read

Large LED temperature display for actual value and setpoint (resolution 0.1 °C)



High measuring accuracy

'Absolute Temperature C alibration' for manual compensation of a temperature difference, 1-point calibration



Automatic control of operating time

Electronic countdown-timer function for timer-programmed unit shut-down, standby mode after programmed time expires

Operation



Clearly structured

Comfortable, splash-proof keypad for setpoint adjustment, high/low temperatures, timer and shaking frequency (SW models)



Consistent cooling capacity

Easily removable venting grid for quick and easy cleaning



100 % Cooling capacity

'Active Cooling Control' for cooling available throughout the entire working temperature range, fast cool-down even at higher temperatures

Warning & Safety Functions



Early warning system for high/low temperature limits

Maximum safety for applications, optical and audible alarm, convertible to automated cut-off function



Enhanced protective functions

Maximum safety, adjustable high temperature cut-off or dry-running protection, additional display of setpoints permits easy and precise adjustments

Temperature Control



Precise

PID Temperature control with set control parameters, temperature stability $\pm 0.02 \dots \pm 0.2$ °C

Technical Features



Serial connection

RS232 interface for PC connection, e.g. for data communication and recording of measured values

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