

# LAUDA Microcool

Circulation chillers for reliable continuous operation in the lab and in research from -10 up to 40 °C



Excellent price-performance ratio, compact design and simple to use



## Application examples

- Cooling of rotary evaporators
- Cooling of distillation systems
- Supply of cooling traps
- Cooling of analytical devices

**LAUDA Microcool** has been designed as a circulation chiller line with five compact models and cooling capacities from 0.25 to 1.2 kW. The user interface with large LED display and the membrane keyboard make the devices easy to use. An RS-232 interface and alarm contact are integrated as standard. What is unusual in this price category

of circulation chillers is the high-quality block pump with magnetic coupling. The magnetic coupling of pump and electric motor exclude sealing problems on the pump shaft. LAUDA Microcool circulation chillers are used whenever heat needs to be dissipated reliably and quickly, e.g. in laboratories for rotary evaporators, distillation systems or analytical devices.

# Your advantages at a glance



## The Microcool advantages

## Your benefits



- Five device types in four housing sizes
- Cooling capacities from 250 W up to 1200 W

- Clear device portfolio for simple selection
- Covers the majority of basic lab uses



- User interface with large LED display and membrane keyboard
- Autostart timer and auto-shutdown function
- Illuminated window for checking heat transfer liquid level

- Simple and intuitive use
- Timer-based activation and deactivation of the circulation chillers
- Quick optical detection of the filling level



- Block pump with magnetic coupling of pump and electric motor
- Integrated adjustable bypass and pressure gauge at MC 600, MC 1200 and MC 1200 W
- Integrated overflow connection

- Prevents sealing problems at the pump shaft
- Integrated pump pressure adjustment for connected delicate glassware
- Controlled filling of the devices



- RS-232 interface and alarm contact standard

- System integration into processes without additional costs



- Compact design and low space requirements
- Integrated filling funnel on top of the device
- Easily removable front grid

- Saves valuable laboratory space
- Simple and safe filling
- Easy-to-clean condenser

# LAUDA Microcool

## Microcool Circulation chiller with cooling capacity up to 1200 Watt

The compact MC 250 and MC 350 makes them ideal for being positioned on the benchtop. The circulation chillers are equipped with a magnetic coupling pump. This supplies a pump pressure of 0.35 bar and a maximum pump flow of 16 L/min.

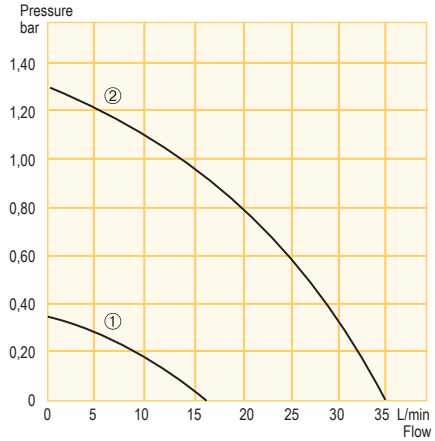
The 600 and 1200 Watt cooling capacity models are floor standing instruments designed to fit underneath the lab bench. They are equipped with a pressure gauge to display the pressure and casters which can be controlled and locked. Pump pressure can be adjusted via the integrated bypass. At 1200 Watt, the most powerful device is also available in a water-cooled version as the MC 1200 W.



Circulation chiller MC 250



### Pump characteristics Heat transfer liquid: Water



- ① MC 250, MC 350
- ② MC 600  
MC 1200  
MC 1200 W

### Temperature range

-10...40 °C

### Included as standard

RS 232 interface · alarm contact

### Included accessories (except of MC 250, MC 350)

Nipples (3/4") · screw caps

**NEW**



465 mm



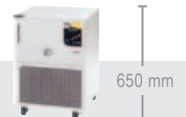
500 mm



595 mm



650 mm



650 mm



All technical data on page 92 and following

Other power supply variants on page 98

Technical features		MC 250	MC 350	MC 600	MC 1200	MC 1200 W
Working temperature range*	°C	-10...40	-10...40	-10...40	-10...40	-10...40
Temperature stability	±K	0.5	0.5	0.5	0.5	0.5
Cooling output at 20 °C	kW	0.25	0.35	0.6	1.2	1.2
Pump pressure max.	bar	0.35	0.35	1.3	1.3	1.3
Pump flow max.	L/min	16	16	35	35	35
Cat. No. 230 V; 50 Hz		LWM 118	LWM 119	LWM 120	LWM 121	LWM 122

\* Working temperature range is equal to ACC range

## Accessories (excerpt)

### EPDM tubing

Cat. No.	Description	d <sub>i</sub> (mm)	d <sub>e</sub> (mm)	Temperature range °C	Pressure range max. bar
RKJ 111	Polymer tubing	9	11	10...120	1
RKJ 112	Polymer tubing	12	14	10...120	1
LZS 021	Insulated	12	21	-35...90	-
RKJ 031	Reinforced fibres	13 (1/2")	19	-40...100	20
RKJ 032	Reinforced fibres	19 (3/4")	27	-40...100	20
RKJ 009	Tube insulation	23	33	-50...105	-
RKJ 013	Tube insulation	29	39.5	-50...105	-

d<sub>i</sub> = internal diameter ; d<sub>e</sub> = external diameter

### Adapter G 3/4"

Cat. No.	Designation	Description
LWZ 016	Nipple	3/4" Screw cap, 1/2" nipple
LWZ 040	Nipple	3/4" Screw cap, 10 mm nipple

### Stainless steel hose clamps

To secure hoses

Cat. No.	Description
EZS 012	Hose clamp for external diameter 10-16 mm, 1/2"
EZS 013	Hose clamp for external diameter 12-22 mm, 1/2"
EZS 015	Hose clamp for external diameter 20-32 mm, 3/4"

### Heat transfer liquids

Cat. No.	Description	Temperature range °C
LZB 120	Aqua 90, 5 L	5...90
LZB 220	Aqua 90, 10 L	5...90
LZB 320	Aqua 90, 20 L	5...90
LZB 109	Kryo 30, 5 L	-30...90
LZB 209	Kryo 30, 10 L	-30...90
LZB 309	Kryo 30, 20 L	-30...90



RKJ 031



LWZ 016



EZS 012



LZB 209



Order the detailed LAUDA accessories brochure and the heat transfer liquids brochure free of charge. These and additional product information can also be found at [www.lauda.de](http://www.lauda.de)

Distributore Autorizzato :  
Geass S.r.l. - Torino  
Tel.: +39 011.22.91.578  
[info@geass.com](mailto:info@geass.com)  
web site : [www.geass.com](http://www.geass.com)