The right temperature worldwide

LAUDA

- Excellent price-performance ratio
- Compact design
- Simple to use

NEW

LAUDA Microcool

Circulation chillers

LAUDA Microcool

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

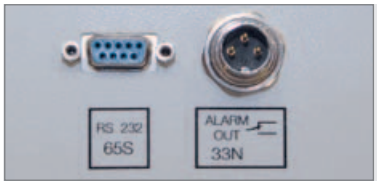
Excellent price-performance ratio, compact design and simple to use

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.

Application examples

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

Your advantages at a glance

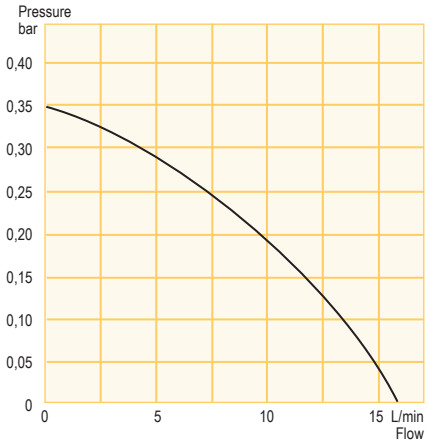
	The Microcool advantages	Your benefits
	• Five device types in four housing sizes • Cooling capacities from 250 W up to 1200 W	• Clear device portfolio for simple selection • Covers the majority of basic lab uses
	• User interface with large LED display and membrane keyboard • Autostart timer and auto-shutdown 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 chillers with cooling capacities of 250 and 350 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.

Pump characteristic Heat transfer liquid: water



Temperature range
-10…40 °C

Included as standard
RS 232 interface · alarm contact

Circulation chiller MC 250

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

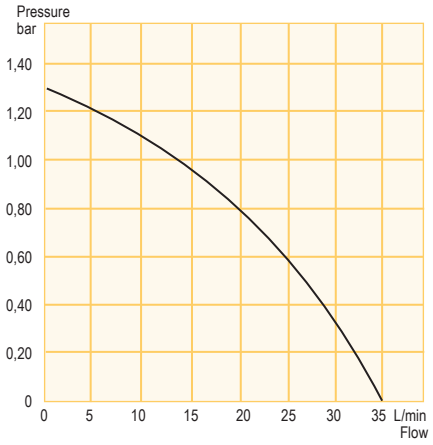
* Working temperature range is equal to ACC range

Microcool
Circulation chillers with cooling capacities of 600 and 1200 Watt

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 controlled 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 600

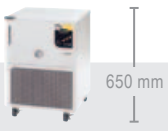
Pump characteristic Heat transfer liquid: water

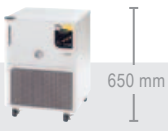


Temperature range
-10…40 °C

Included as standard
RS 232 interface · alarm contact

Included accessories
Nipples (3/4“) · screw caps





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

* Working temperature range is equal to ACC range

LAUDA Microcool

Type	Working temperature range	Ambient temperature range	Temperature stability	Cooling output (measured with ethanol, ambient temperature 20 °C) 20 °C	10 °C	0 °C	-10 °C	Pump pressure max.	Pump flow max.	Pump connection thread (inner diameter in mm)	For tubings	Filling volume	Dimensions (WxDxH)	Noise level	Weight	Cat. No. 230 V; 50 Hz	Cat. No. 220 V; 60 Hz	Cat. No. 115 V; 60 Hz	Cat. No. 100 V; 50/60 Hz
	°C	°C	±K	kW	kW	kW	kW	bar	L/min			L	mm	dB(A)	kg				
LAUDA Microcool																			
MC 250	-10…40	5...40	0.5	0.25	0.20	0.15	0.09	0.35	16	Ø 10 mm	1/2“	2...4	200x350x465	60	26	LWM 118	LWM 218	LWM 418	LWM 618
MC 350	-10…40	5...40	0.5	0.35	0.27	0.20	0.12	0.35	35	Ø 10 mm	1/2“	3...5	240x400x500	60	35	LWM 119	LWM 219	LWM 419	LWM 619
MC 600	-10…40	5...40	0.5	0.60	0.50	0.36	0.15	1.30	35	G 3/4“ (15)	3/4“	4...8	350x480x595	57	51	LWM 120	LWM 220	LWM 420	LWM 620
MC 1200	-10…40	5...40	0.5	1.20	1.05	0.75	0.40	1.30	35	G 3/4“ (15)	3/4“	7...14	450x550x650	59	64	LWM 121	LWM 221	LWM 421	LWM 621
MC 1200 W	-10…40	5...40	0.5	1.20	1.05	0.75	0.40	1.30	35	G 3/4“ (15)	3/4“	7...14	450x550x650	59	64	LWM 122	LWM 222	LWM 422	LWM 622

All units are carried out in protection class IP 32

Accessories

EPDM tubing

Cat. No.	Description	d_i (mm)	d_e (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 for 1/2“	23	33	-50…105	-
RKJ 013	Tube insulation for 3/4“	29	39.5	-50…105	-

d_i = internal diameter ; d_e = external diameter

RKJ 031

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

LWZ 016

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“

EZS 012

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

LZB 209

LAUDA DR. R. WOBSER GMBH & CO. KG · Pfarrstraße 41/43 · 97922 Lauda-Königshofen · Germany
Phone: +49 (0)9343 503-0 · Fax: +49 (0)9343 503-222 · E-mail: info@lauda.de · Internet: www.lauda.de

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