The right temperature worldwide

LAUDA



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



LAUDA Microcool Circulation chillers

LAUDA Microcool

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











Application examples

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

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

The LAUDA Microcool product line has been designed as a circulation chiller line with four 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 whereever heat needs to be dissipated reliable and fast, e. g. in laboratories for rotary evaporators, distillation systems or analytical devices.

Your advantages at a glance

+	The Microcool advantages	Your benefits
	 Four device types in three 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 or high pressure for max. flow rate Controlled filling of the devices
RS 232 655	 RS-232 interface and alarm contact standard 	 System integration into processes without additional costs
	Compact design and low space requirementsIntegrated filling funnel on top of the deviceEasily removable front grid	Saves valuable laboratory spaceSimple and safe fillingEasy-to-clean condenser

LAUDA Microcool

Microcool Circulation chiller with cooling capacity of 250 Watt

The compact design MC 250 model makes it ideal for being positioned on the benchtop. The circulation chiller is equipped with a magnetic coupling pump. This supplies a pump pressure of 0.35 bar and a maximum pump flow of 16 L/min.



Included as standard RS 232 interface · alarm contact



Circulation chillers with cooling capacities of up to 10 kW and options for heaters and pumps can be found in the Variocool brochure. This can be provided for free on request. www.lauda.de



Circulation chiller MC 250



Applications Advantages Devices Accessories

* 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 watercooled version as the MC 1200 W.



Circulation chiller MC 600



Included as standard RS 232 interface · alarm contact

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



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Circulation chillers with cooling capacities of up to 265 kW for customerspecific requirements can be found in the Ultracool brochure. This can be provided for free on request. www.lauda.de

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		595 mm	650 mm	650 mm
Technical features		MC 600	MC 1200	MC 1200 W
Working temperature range*	°C	-1040	-1040	-1040
Temperature stability	±Κ	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



No.	о М С	o And Dogues	H is the second	≅ 20° ^{G(10} Stop) ≦ 20°C Stop)	رہ am م kW	Coolir measured bient tem	ig outp I with eth perature ° 2 kW	ut ^{anol,} 20 °C) v	L/mi	100 000 000 000 000 000 000 000 000 000	Contraction of the		mm	dB(A	/0,0/0) kg	10 - 10 - 10 - 10 - 10 - 10 - 10 - 10 -	20 4 44 20 4 44 20 4	24 0 12 24 0 12 27 0 12	64, 04, 10, 10, 10,
LAUDA Micro	ocool																		
MC 250	-1040	540	0.5	0.25	0.20	0.15	0.09	0.35	16	Ø 10 mm	1/2"	24	200x350x465	60	26	LWM 118	LWM 218	LWM 418	LWM 618
MC 600	-1040	540	0.5	0.60	0.50	0.36	0.15	1.30	35	G ³ /4" (15)	3/4"	48	350x480x595	57	51	LWM 120	LWM 220	LWM 420	LWM 620
MC 1200	-1040	540	0.5	1.20	1.05	0.75	0.40	1.30	35	G ³ /4" (15)	3/4"	714	450x550x650	59	64	LWM 121	LWM 221	LWM 421	LWM 621
MC 1200 W	-1040	540	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	I WM 422	I WM 622

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	10120	1
RKJ 112	Polymer tubing	12	14	10120	1
LZS 021	Insulated	12	21	-3590	-
RKJ 031	Reinforced fibres	13 (1/2")	19	-40100	20
RKJ 032	Reinforced fibres	19 (3/4")	27	-40100	20
RKJ 009	Tube insulation	23	33	-50105	-
RKJ 013	Tube insulation	29	39.5	-50105	-
d: = internal diamet	or : d - = oxtornal diamotor				





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Ada	pter 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	590
LZB 220	Aqua 90, 10 L	590
LZB 320	Aqua 90, 20 L	590
LZB 109	Kryo 30, 5 L	-3090
LZB 209	Kryo 30, 10 L	-3090
LZB 309	Kryo 30, 20 L	-3090

Thermostats · Circulation chillers · Water baths

Process cooling systems · Heat transfer systems · Secondary circuit systems Viscometers · Tensiometers

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LZB 209

