



LAUDA

OVERALL BROCHURE
CONSTANT TEMPERATURE
EQUIPMENT
2026/2027

°FAHRENHEIT. °CELSIUS. °LAUDA.

LAUDA CIRCULATION CHILLERS

A blurred laboratory background with a person in a white lab coat and a piece of scientific equipment in the foreground. The equipment includes a glass flask on a stand and a black control unit with two silver knobs.

Specific application examples

- Rotary evaporators
- Distillation systems
- Spectrometers
- Supply of cooling traps
- Digital printing
- Laser cutting
- Laser sorting
- Point welding
- Injection molding
- Tunnel drilling machines
- Centralized cooling water supply



Circulation chillers

Immersion/bath circulation thermostats

Water baths

Deep-freezers

Stills

Digital products

Accessories, Service

LAUDA Microcool

Circulation chillers for reliable continuous operation in laboratory and research applications from -10 to 40°C

-10°C  40°C

Compact circulation chillers with outstanding price-performance ratio

The LAUDA Microcool line of user-friendly circulation chillers consists of four compact models with large LED display and membrane keypad, offering cooling capacities of 0.35 to 2 kW. The highlight of these devices is the premium quality centrifugal pump with magnetic coupling – unique to this price category: Magnetic coupling of pump and electric motor prevents any kind of seal issue from arising on the pump shaft, eliminating the chance for any fluid to leak.



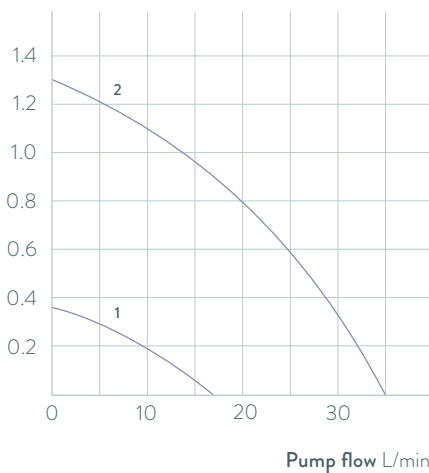
Illuminated viewing glass enables quick identification of the fill level



Standard-issue RS-232 interface and alarm contact

PUMP CHARACTERISTICS Heat transfer liquid: Water

Pressure bar



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

Important functions

- Auto-start timer and auto shutdown function
- Filling opening at the top, drain connection at the rear
- Cooling capacity adapted via solenoid valve control, including automatic compressor control

Included accessories

Nipples, screw caps

Further accessories

Tubing

All technical data and power supply variants can be found in the ›Technical data‹ section.

More at www.lauda.de/de/1764

NEW
MC 2000



LAUDA Microcool

The compact MC 350 recirculating chiller fits easily on a lab bench. Somewhat larger models are also available having 600, 1,200 and 2,000 watts of cooling capacity and which can be positioned on the floor under a lab bench to save space.



Accessories, Service | Digital products | Stills | Deep-freezers | Water baths | Immersion/bath circulation thermostats | Circulation chillers

LAUDA Ultracool

Energy-efficient process circulation chillers from -10 to 35°C

-10°C  35°C

LAUDA Ultracool circulation chillers with an energy saving of up to 50 percent

Developed with a focus on energy efficiency, the LAUDA Ultracool circulation chillers make a pivotal contribution to reducing your operating costs. Depending on the operating conditions, the devices make it possible to reduce energy costs by up to 50 percent, with payback times of less than one year. The innovative operating concept enables the LAUDA Ultracool circulation chillers to be conveniently monitored and controlled from a distance – via a connected remote control or the integrated web server on a PC or laptop or connected to the LAUDA.LIVE Cloud via a 4G wireless gateway. This allows comfortable operation via PC or laptop.



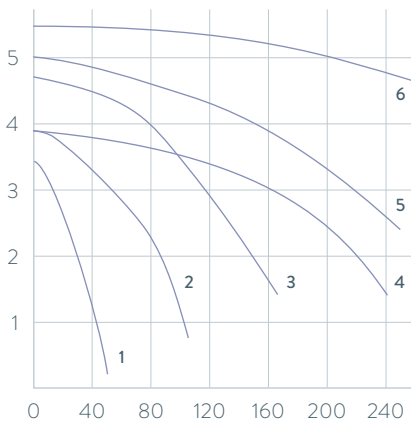
Suitable for outdoor installation (IP54)



LAUDA Ultracool UC 2/UC 4 in a compact size

PUMP CHARACTERISTIC Standard pumps (3 bar), 50 Hz; Heat transfer liquid: Water

Pressure bar



- 6 UC 80, UC 100
- 5 UC 65
- 4 UC 50
- 3 UC 24
- 2 UC 8, UC 14
- 1 UC 2, UC 4

Important functions

- High energy efficiency results in low operating costs
- Operation via LCD remote control unit or web server
- Increased temperature stability of $\pm 0.5\text{ K}$
- Remote monitoring and maintenance via LAUDA.LIVE

Included accessories

Ethernet interface, remote control unit, stainless steel connections

Further accessories

Hose kits, reverse flow protection, 4G wireless gateway

All technical data and power supply variants can be found in the [Technical data](#) section.

More at www.lauda.de/de/1778

LAUDA.LIVE
ready



LAUDA Ultracool

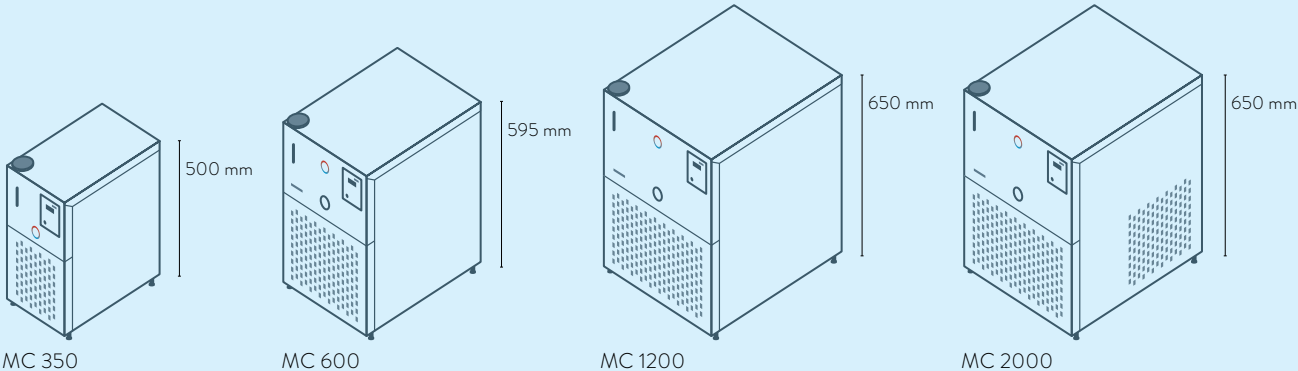
The energy-efficient LAUDA Ultracool circulation chillers comply with the Ecodesign Directive 2009/125/EC. This defines performance requirements with regard to energy efficiency (SEPR indices) that process circulation chillers in this performance class must fulfill. LAUDA Ultracool chillers meet and some even exceed these requirements. Depending on the operating conditions, the new circulation chillers are up to 50 percent more energy-efficient than conventional models.



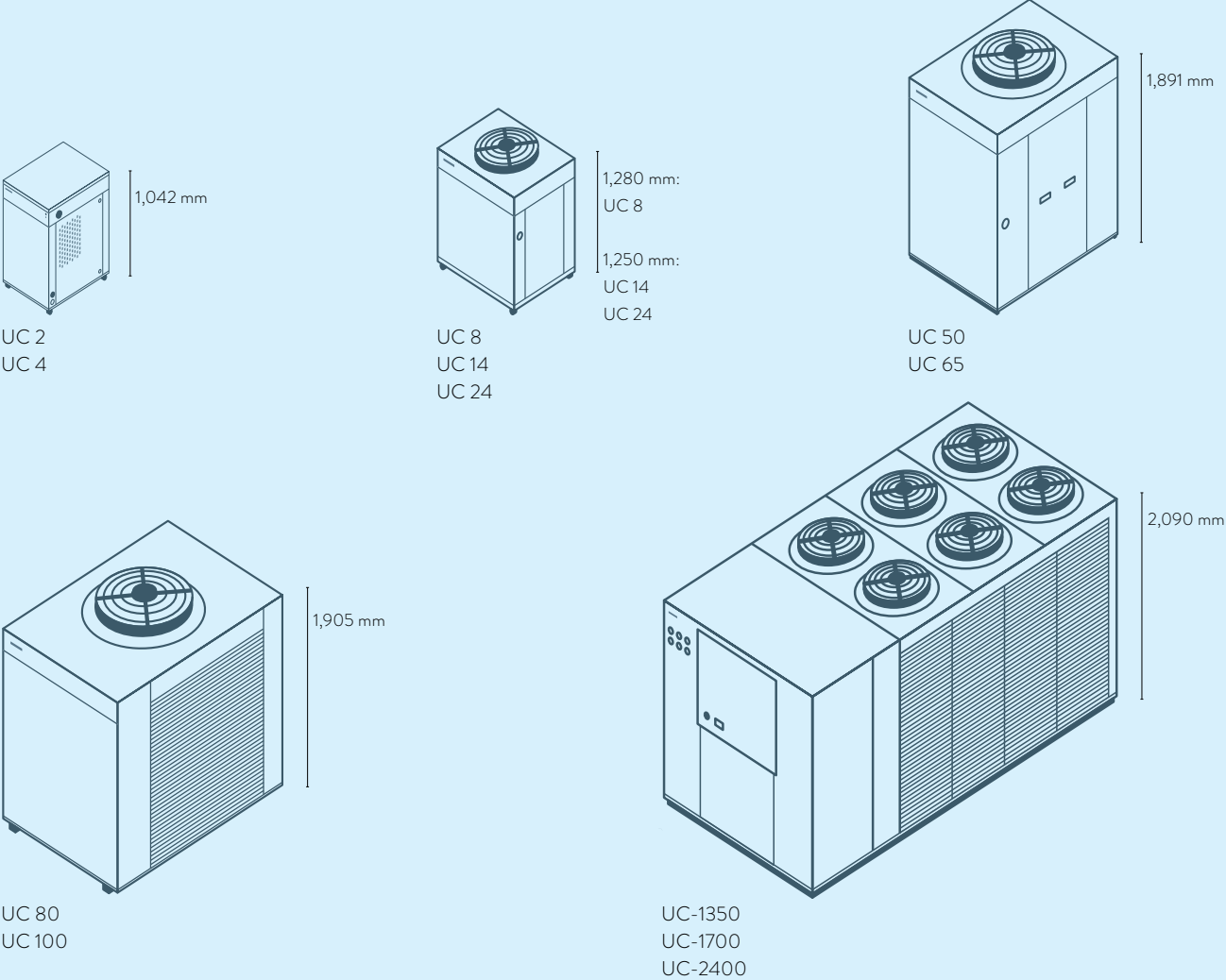
LAUDA Circulation chillers

Device type overview

LAUDA Microcool / Page 54



LAUDA Ultracool / Page 56



LAUDA Circulation chillers

Interfaces / Function overview

	Ethernet	RS-232	Malfunction contact
LAUDA Microcool / Page 54	-	S	S
LAUDA Ultracool / Page 56	S*	-	S

S = Series standard

S* = Ethernet with Modbus TCP/IP protocol

Operating element	Microcool	Ultracool
Display	7-Segment	LCD
Mode of operation	3-button	6-button
1-point calibration	✓	-
Programmer, programs/segments	-	-
Programmer, tolerance range function	-	-
Graphic temperature profile display	-	-
Pump pressure display (analog)	✓*	-
Pump pressure display (digital)	-	✓
Adjustable bypass	✓*	-
Level indicator (analog)	✓	-
Level indicator (digital)	-	-
Standby timer	✓	✓
Flow control instrument	-	-
Overflow	✓	-
Low-level alarm	✓	✓
Drain tap	-	✓
Drain screw	✓	-

* MC 600, MC 1200, MC 2000

LAUDA Circulation chillers

Technical data according to DIN 12876 standard

Device type	Working temperature range °C	Temperature stability* ±K	Ambient temperature range °C	Cooling of the refrigerating machine	Heater power max. kW	Cooling output kW					Pump pressure max. bar	Pump flow max. pressure L/min	Pump connection thread	Bath volume min. L
						20 °C	10 °C	0 °C	-10 °C	-20 °C				
LAUDA Microcool with natural refrigerant / Page 54														
MC 350	-10 ... 40	0.50	5 ... 40	Air	-	0.35	0.27	0.20	0.12	-	0.35	16	Ø 10 mm	4.0
MC 600	-10 ... 40	0.50	5 ... 40	Air	-	0.60	0.50	0.37	0.20	-	1.30	35	G ¾	4.0
MC 1200	-10 ... 40	0.50	5 ... 40	Air	-	1.20	1.05	0.75	0.40	-	1.30	35	G ¾	7.0
NEW MC 2000	-10 ... 40	0.50	5 ... 40	Air	-	2.00	1.70	1.25	0.70	-	1.30	35	G ¾	7.0

Bath volume max. L	Dimensions (W x D x H) mm	Protection Rating	Noise level dB (A)	Weight kg	Loading max. kW	Power supply V; Hz	Part Number	Device type
7.0	240 x 400 x 500	IP 32	57	30	0.34	220 V; 60 Hz & 230 V; 50 Hz	L004112	MC 350
8.0	350 x 480 x 595	IP 32	54	50	0.62	230 V; 50 Hz	L004455	MC 600
14.0	450 x 550 x 650	IP 32	59	63	0.82	230 V; 50 Hz	L004461	MC 1200
14.0	450 x 550 x 650	IP 32	60	63	1.10	230 V; 50 Hz	L004521	MC 2000

LAUDA Circulation chillers

Technical data

Device type	Working temperature range °C	Temperature stability ±K	Ambient temperature range °C	Cooling output at water outlet temperature ¹ kW								Number of refrigerant circuits	Motor fan			Max. discharge pressure bar
				35 - 25 °C	20 °C	15 °C	10 °C	5 °C	0 °C	-5 °C	-10 °C		No.	kW	m ³ /h	
LAUDA Ultracool with natural refrigerant / Page 56																
UC 2	-10...35	0.5	-15...50	3.1	3.1	2.8	2.6	2.0	1.7	1.4	1.2	1	1	0.2	3,050	3.4
UC 2	-10...35	0.5	-15...50	3.1	3.1	2.8	2.6	2.0	1.7	1.4	1.2	1	1	0.2	3,050	5.5
UC 4	-10...35	0.5	-15...50	6.1	6.1	5.5	4.7	3.9	3.3	2.8	2.4	1	1	0.2	3,050	5.5
UC 4	-10...35	0.5	-15...50	6.1	6.1	5.5	4.7	3.9	3.3	2.8	2.4	1	1	0.2	3,050	3.4
UC 8	-10...35	0.5	-20...50	14.1	12.7	11.3	10.1	8.7	7.4	6.1	5.0	1	1	0.2	4,500	3.9
UC 8	-10...35	0.5	-20...50	14.1	12.7	11.3	10.1	8.7	7.4	6.1	5.0	1	1	0.5	4,500	6.8
UC 14	-10...35	0.5	-20...50	21.8	19.7	17.7	15.4	13.2	11.3	9.5	7.9	1	1	0.5	7,500	4.7
UC 14	-10...35	0.5	-20...50	21.8	19.7	17.7	15.4	13.2	11.3	9.5	7.9	1	1	1.0	7,500	6.8
UC 24	-10...35	0.5	-20...50	37.1	33.2	29.6	25.9	21.9	18.8	16.1	13.8	1	1	1.0	7,500	4.7
UC 24	-10...35	0.5	-20...50	37.1	33.2	29.6	25.9	21.9	18.8	16.1	13.8	1	1	1.0	7,500	5.8
UC 50	-10...35	0.5	-20...50	74.5	67.0	60.0	51.2	45.3	37.9	31.9	26.7	1	1	1.0	19,000	5.0
UC 50	-10...35	0.5	-20...50	74.5	67.0	60.0	51.2	45.3	37.9	31.9	26.7	1	1	2.6	19,000	6.5
UC 65	-10...35	0.5	-20...50	95.5	86.0	77.2	67.9	58.5	49.1	41.5	34.7	1	1	2.6	19,000	5.0
UC 65	-10...35	0.5	-20...50	95.5	86.0	77.2	67.9	58.5	49.1	41.5	34.7	1	1	2.6	19,000	7.2
UC 80	-10...35	1.0	-20...50	106.5	103.6	92.5	79.8	68.2	57.9	48.7	40.6	1	1	2.6	24,000	5.3

¹ at 25°C ambient temperature

² Rp = G = BSP (internal screw thread acc. to British Standard Pipe)

Pump flow max. L/min	Nominal discharge pressure bar	Pump flow nominal L/min	Pump connection thread ²	Volume water tank L	Dimensions (W x D x H) mm	Protection Rating	Noise level dB (A)	Weight kg	Loading nominal kW	Max. fuse A	Power supply V; Hz	SEPR	Part Number	Device type
42	3.3	5.6	Rp ½	12	510×680×1,042	IP 32	53.5	101	0.9	16	230 V; 50 Hz	8.70	L004586	UC 2
68.3	5.3	5.6	Rp ½	12	510×680×1,042	IP 32	53.5	101	0.9	16	230 V; 50 Hz	8.70	L004670	UC 2
68.3	5.0	13.8	Rp ½	12	510×680×1,042	IP 32	57.9	103	1.8	16	230 V; 50 Hz	6.40	L004671	UC 4
42	2.8	13.8	Rp ½	12	510×680×1,042	IP 32	57.9	103	1.8	16	230 V; 50 Hz	6.40	L004588	UC 4
105	3.5	26.6	Rp 1	35	720×910×1,280	IP 54	61.0	150	3.2	25	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	5.80	L004662	UC 8
106	6.1	26.6	Rp 1	35	720×910×1,280	IP 54	61.0	150	3.8	25	400 V; 3/PE; 50 Hz	5.80	L004672	UC 8
166	3.2	43.8	Rp 1	35	720×910×1,250	IP 54	64.7	175	5.5	25	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	5.92	L004663	UC 14
106	5.5	43.8	Rp 1	35	720×910×1,250	IP 54	64.7	175	5.4	25	400 V; 3/PE; 50 Hz	5.92	L004673	UC 14
166	3.8	84.1	Rp 1	35	720×910×1,250	IP 54	64.7	180	9.7	32	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	5.30	L004590	UC 24
166	4.7	84.1	Rp 1	35	720×910×1,250	IP 54	64.7	180	9.7	32	400 V; 3/PE; 50 Hz	5.30	L004674	UC 24
250	3.1	150.0	Rp 1½	125	1,040×1,435×1,890	IP 54	68.7	410	16.4	50	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	5.72	L004664	UC 50
250	5.5	150.0	Rp 1½	125	1,040×1,435×1,890	IP 54	68.7	410	16.4	50	400 V; 3/PE; 50 Hz	5.72	L004675	UC 50
250	3.3	196.0	Rp 1½	125	1,040×1,435×1,890	IP 54	69.5	440	22.0	63	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	5.51	L004591	UC 65
367	6.6	196.0	Rp 1½	125	1,040×1,435×1,890	IP 54	69.5	440	23.7	63	400 V; 3/PE; 50 Hz	5.51	L004676	UC 65
367	4.6	250.0	Rp 2½	125	1,256×1,706×1,905	IP 54	67.5	700	26.0	63	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	5.47	L004665	UC 80

LAUDA Circulation chillers

Technical data

Device type	Working temperature range °C	Temperature stability ±K	Ambient temperature range °C	Cooling output at water outlet temperature ¹ kW								Number of refrigerant circuits	Motor fan			Max. discharge pressure bar
				35 - 25 °C	20 °C	15 °C	10 °C	5 °C	0 °C	-5 °C	-10 °C		No.	kW	m ³ /h	
LAUDA Ultracool with F-gas refrigerant / Page 56																
UC 2	-10...35	0.5	-15...50	3.1	3.1	2.8	2.4	2.0	1.7	1.4	1.2	1	1	0.2	3,050	3.4
UC 2	-10...35	0.5	-15...50	3.1	3.1	2.8	2.4	2.0	1.7	1.4	1.2	1	1	0.2	3,050	5.5
UC 4	-10...35	0.5	-15...50	6.1	6.1	5.5	4.8	3.9	3.3	2.8	2.4	1	1	0.2	3,050	3.4
UC 4	-10...35	0.5	-15...50	6.1	6.1	5.5	4.8	3.9	3.3	2.8	2.4	1	1	0.2	3,050	3.9
UC 8	-10...35	0.5	-20...50	13.3	13.3	12.0	10.2	8.5	7.0	5.4	4.4	1	1	0.5	4,500	6.8
UC 8	-10...35	0.5	-20...50	13.3	13.3	12.0	10.2	8.5	7.0	5.4	4.4	1	1	0.5	4,500	4.7
UC 14	-10...35	0.5	-20...50	22.4	20.3	18.4	15.8	13.4	11.1	9.3	7.6	1	1	1.0	7,500	6.8
UC 14	-10...35	0.5	-20...50	22.4	20.3	18.4	15.8	13.4	11.1	9.3	7.6	1	1	1.0	7,500	4.7
UC 24	-10...35	0.5	-20...50	34.0	30.9	28.1	24.3	20.8	17.3	14.5	12.0	1	1	1.0	7,500	5.8
UC 24	-10...35	0.5	-20...50	34.0	30.9	28.1	24.3	20.8	17.3	14.5	12.0	1	1	1.0	7,500	5.0
UC 50	-10...35	0.5	-20...50	67.5	65.6	59.4	51.2	43.7	36.4	30.4	25.2	1	1	2.6	19,000	6.5
UC 50	-10...35	0.5	-20...50	67.5	65.6	59.4	51.2	43.7	36.4	30.4	25.2	1	1	1.0	19,000	5.8
UC 65	-10...35	0.5	-20...50	87.5	85.2	77.4	66.9	57.3	47.8	40.1	33.3	1	1	1.0	19,000	5.0
UC 65	-10...35	0.5	-20...50	87.5	85.2	77.4	66.9	57.3	47.8	40.1	33.3	1	1	2.6	19,000	6.5
UC 80	-10...35	1.0	-20...50	104.3	101.4	91.8	79.0	67.5	56.2	47.1	39.0	1	1	3.0	24,000	5.2
UC 80	-10...35	1.0	-20...50	104.3	101.4	91.8	79.0	67.5	56.2	47.1	39.0	1	1	2.6	24,000	5.0
UC 100	-10...35	1.0	-20...50	124.7	121.4	110.2	95.3	81.7	68.3	57.5	47.8	1	1	3.0	24,000	5.4
UC 100	-10...35	1.0	-20...50	124.7	121.4	110.2	95.3	81.7	68.3	57.5	47.8	1	1	3.0	24,000	5.2
UC-1350	13...25	2.0	-15...45	182.1	182.1	163.7	-	-	-	-	-	2	6	3.6	57,000	5.5
UC-1700	13...25	2.0	-15...45	228.4	228.4	205.9	-	-	-	-	-	2	6	3.6	55,200	5.2
UC-2400	13...25	2.0	-15...45	336.9	336.9	308.8	-	-	-	-	-	2	6	7.5	66,000	5.2

¹ at 25°C ambient temperature

² Rp = G = BSP (internal screw thread acc. to British Standard Pipe)

Pump flow max. L/min	Nominal discharge pressure bar	Pump flow nominal L/min	Pump connection thread ²	Volume water tank L	Dimensions (W x D x H) mm	Protection Rating	Noise level dB (A)	Weight kg	Loading nominal kW	Max. fuse A	Power supply V; Hz	SEPR	Part Number	Device type
42	3.3	5.6	Rp ½	12	510×680×1,042	IP 32	53.5	90	1.0	16	230 V; 50 Hz	6.24	L003509*	UC 2
68.3	5.3	5.6	Rp ½	12	510×680×1,042	IP 32	53.5	93	1.2	16	230 V; 50 Hz	6.24	L003510*	UC 2
42	2.8	13.8	Rp ½	12	510×680×1,042	IP 32	57.9	91	1.8	16	230 V; 50 Hz	5.23	L003511*	UC 4
68.3	5.0	13.8	Rp ½	12	510×680×1,042	IP 32	57.9	91	2.0	16	230 V; 50 Hz	5.23	L003512*	UC 4
105	3.5	26.6	Rp 1	35	720×910×1,280	IP 54	61.0	152	3.4	25	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	6.44	L002853*	UC 8
106	6.1	26.6	Rp 1	35	720×910×1,280	IP 54	61.0	156	3.8	25	400 V; 3/PE; 50 Hz	6.44	L002944*	UC 8
105	3.2	43.8	Rp 1	35	720×910×1,250	IP 54	64.7	177	5.1	25	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	6.41	L002854*	UC 14
106	5.5	43.8	Rp 1	35	720×910×1,250	IP 54	64.7	154	5.4	25	400 V; 3/PE; 50 Hz	6.41	L002946*	UC 14
166	3.8	84.1	Rp 1	35	720×910×1,250	IP 54	64.7	184	8.0	32	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	5.63	L002855*	UC 24
166	4.7	84.1	Rp 1	35	720×910×1,250	IP 54	64.7	182	9.5	32	400 V; 3/PE; 50 Hz	5.63	L002947*	UC 24
242	3.1	150	Rp 1½	125	1,040×1,435×1,890	IP 54	68.7	411	14.8	50	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	5.37	L002856*	UC 50
250	5.5	150	Rp 1½	125	1,040×1,435×1,890	IP 54	68.7	429	16.5	50	400 V; 3/PE; 50 Hz	5.37	L002948*	UC 50
250	3.3	196	Rp 1½	125	1,040×1,435×1,890	IP 54	69.5	427	20.4	63	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	5.16	L002857*	UC 65
367	6.6	196	Rp 1½	125	1,040×1,570×1,890	IP 54	69.5	461	23.6	63	400 V; 3/PE; 50 Hz	5.16	L002949*	UC 65
367	4.6	250	Rp 2½	125	1,256×1,706×1,905	IP 54	67.2	682	23.0	80	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	6.87	L003684*	UC 80
500	5.1	250	Rp 2½	125	1,256×1,706×1,905	IP 54	67.2	682	23.3	80	400 V; 3/PE; 50 Hz	6.87	L003686*	UC 80
367	3.8	300	Rp 2½	125	1,256×1,706×1,905	IP 54	69.3	679	29.9	80	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz	6.20	L003685*	UC 100
500	5.0	300	Rp 2½	125	1,256×1,706×1,905	IP 54	69.3	700	30.2	80	400 V; 3/PE; 50 Hz	6.20	L003687*	UC 100
500	4.5	392	Rp 2½	500	1,660×3,400×2,090	IP 54	62.2	1,570	43.8	150	400 V; 3/PE; 50 Hz	-	E6135221*	UC-1350
670	3.4	494	Rp 2½	500	1,660×3,400×2,090	IP 54	61.3	1,630	54.9	150	400 V; 3/PE; 50 Hz	-	E6170221*	UC-1700
970	3.6	733	DIN-2566 DN80	500	1,660×3,585×2,090	IP 54	62.7	1,690	71.4	200	400 V; 3/PE; 50 Hz	-	E6240221*	UC-2400

* Utilises traditional refrigerants (HFCs) in accordance with European legislation to control F-gases (EU) 573/2024. Detailed information can be found on the respective product detail page of the part number at www.lauda.de

LAUDA Circulation chillers

Power supply variants

Device type	Power supply V; Hz	Pump pressure max. bar	Pump flow max. pressure L/min	Loading max. kW	Plug code*	Part Number	Device type	Power supply V; Hz	Pump pressure max. bar	Pump flow max. pressure L/min	Loading max. kW	Plug code*	Part Number
LAUDA Microcool with natural refrigerant / Page 54													
MC 350	100 V; 50/60 Hz	0.35	16	0.3	14	L004453	MC 1200	230 V; 50 Hz	1.3	35	0.8	42	L004462
MC 350	220 V; 60 Hz / 230 V; 50 Hz	0.35	16	0.3	42	L004451	MC 1200	115 V; 60 Hz	1.3	35	0.7	14	L004464
MC 350	115 V; 60 Hz	0.35	16	0.3	14	L004452	MC 2000	230 V; 50 Hz	1.3	35	1.1	42	L004523
MC 600	115 V; 60 Hz	1.3	35	0.8	14	L004458	MC 2000	115 V; 60 Hz	1.3	35	1.3	14	L004524
MC 600	230 V; 50 Hz	1.3	35	0.6	42	L004456							
MC 600	220 V; 60 Hz	1.3	35	0.8	43	L004457							
LAUDA Ultracool with F-gas refrigerant / Page 56													
UC 2	230 V; 60 Hz	3.5	50	1.1	31	L003513	UC 4	230 V; 60 Hz	3.5	50	1.9	31	L003514
UC 2	230 V; 60 Hz	5.0	80	1.2	31	L003533	UC 4	230 V; 60 Hz	5.0	80	2.0	31	L003534
LAUDA Ultracool with natural refrigerant / Page 56													
UC 2	230 V; 60 Hz	3.5	50	1.1	31	L004587	UC 4	230 V; 60 Hz	3.5	50	1.9	31	L004589

*All data for the plug codes can be found on page 142

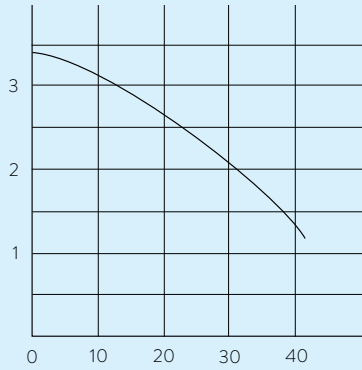
LAUDA Circulation chillers

More characteristics

LAUDA Ultracool / Page 56

PUMP CHARACTERISTIC Heat transfer liquid: Water

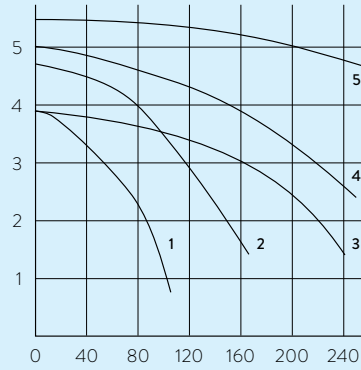
Pressure bar



UC 2, UC 4

PUMP CHARACTERISTIC Heat transfer liquid: Water

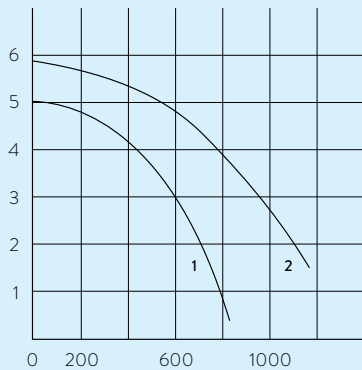
Pressure bar



- 5 UC 80, UC 100
- 4 UC 65
- 3 UC 50
- 2 UC 24
- 1 UC 8, UC 14

PUMP CHARACTERISTIC Heat transfer liquid: Water

Pressure bar



- 1 UC-1350
- UC-1700
- 2 UC-2400

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