

PRODUCT DATA SHEET

Published: 2026-04-13

LAUDA Ultracool UC 50 Circulation chiller
400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Part Number: L004664

Features

- Highly efficient industrial chiller
- Operation possible via web server
- Temperature control is achieved via a PID controller.
- Industrial block pump with high pressure and high flow rate
- Integrated water filter
- Integrated Ethernet interface
- Operates with non flammable liquids (water,water/glycol)
- Meeting the energy efficiency requirements of the EcoDesign directive 2009/125/EC
- Utilizes natural refrigerants



Working temperature min.
-10 °C



Working temperature max.
35 °C

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Beirat: Dr. Gerhard Wobser

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Technical Features

Working temperature range	-10 ... 35 °C
Ambient temperature range	-20 ... 50 °C
Temperature stability	0.5 ± K
Filling volume max.	125 L
Pump Pressure max.	5,0 bar (50 Hz), 5,6 bar (60 Hz)
Pump Pressure nominal	3.1 bar (50 Hz); 5.5 bar (60 Hz)
Pump flow rate max. (pressure)	250 L/min (50 Hz); 292 L/min (60 Hz)
Pump flow rate nominal	150 L/min
In / Outlet connection thread (inside)	Rp 11/2
Overall dimensions (WxDxH)	1040 x 1435 x 1890 mm
Weight	410 kg
Noise level	68.7 dB(A)
Refrigerant stage 1	R-290 (GWP 3); 1.780 kg; 0.0 t CO ₂ -eq
Minimum room size, depending on the refrigerant	235,0 m ³
SEPR	5.72
Power supply	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Power plug	---

Reserve technical changes

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Temperature	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
25 °C	74.5 kW	74.5 kW
20 °C	67 kW	67 kW
15 °C	60 kW	60 kW
10 °C	51.2 kW	51.2 kW
5 °C	45.3 kW	45.3 kW
0 °C	37.9 kW	37.9 kW
-5 °C	31.9 kW	31.9 kW
-10 °C	26.7 kW	26.7 kW

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