

PRODUCT DATA SHEET

Published: 2026-01-30

LAUDA Ultracool UC 24 Circulation chiller
400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Part Number: L004590

Features

- Highly efficient industrial chiller
- Operation possible via web server
- Electronic 2-point temperature control
- 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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WEEE-Reg.-Nr.: DE 66 42 40 57

Kommanditgesellschaft: Sitz Lauda-Königshofen
Registergericht Mannheim • HRA 560069

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LAUDA DR. R. WOBSEY Verwaltungs-GmbH
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Registergericht Mannheim • HRB 560226

Geschäftsführer:
Dr. Gunther Wobser (Vors.), Dr. Mario Englert,
Dr. Marc Stricker
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.	35 L
Pump Pressure max.	4,7 bar (50 Hz), 6,8 bar (60 Hz)
Pump Pressure nominal	3.8 bar (50 Hz); 6.2 bar (60 Hz)
Pump flow rate max. (pressure)	166 L/min (50 Hz); 200 L/min (60 Hz)
Pump flow rate nominal	84.1 L/min
In / Outlet connection thread (inside)	Rp 1
Overall dimensions (WxDxH)	720 x 910 x 1250 mm
Weight	180 kg
Refrigerant stage 1	R-290 (GWP 3); 0.830 kg; 0.0 t CO ₂ -eq
Minimum room size, depending on the refrigerant	109,6 m ³
SEPR	5.3
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	37.1 kW	37.1 kW
20 °C	33.2 kW	33.2 kW
15 °C	29.6 kW	29.6 kW
10 °C	25.9 kW	25.9 kW
5 °C	21.9 kW	21.9 kW
0 °C	18.8 kW	18.8 kW
-5 °C	16.1 kW	16.1 kW
-10 °C	13.8 kW	13.8 kW

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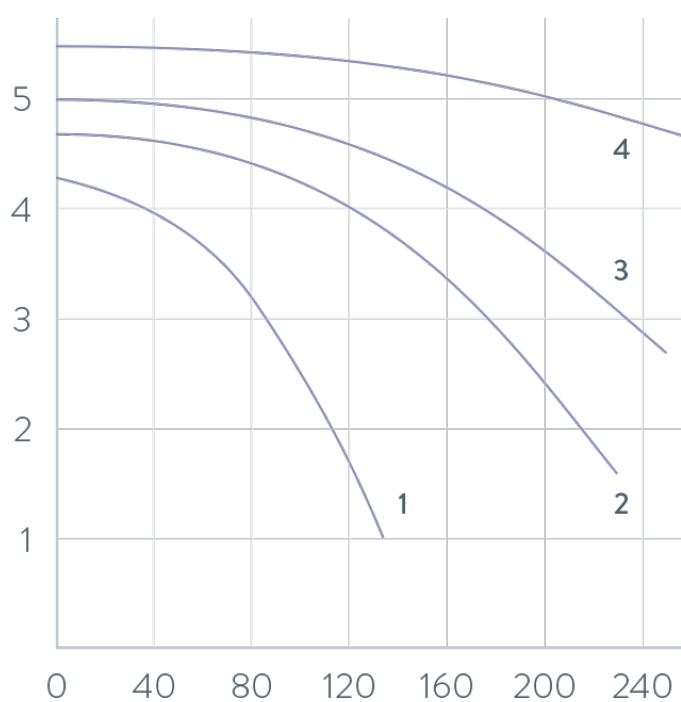
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PUMP CHARACTERISTIC Heat transfer liquid: Water

Pressure bar



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

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