

PRODUCT DATA SHEET

Published: 2025-09-30

LAUDA Ultracool UC 80 Circulation chiller
400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Part Number: L003684

Features

- Highly efficient industrial chiller
- LCD remote control with 5 m cable
- Operation possible via web server
- Electronic 2-point temperature control
- Protection level IP 54 (for outdoor installation)
- Industrial block pump with high pressure and high flow rate
- Integrated water filter
- Integrated Ethernet interface
- Integrated phase detector indicates if phase sequence is correct
- Inlet and outlet water connections in stainless steel
- Operates with non flammable liquids (water, water/glycol)
- Meeting the energy efficiency requirements of the EcoDesign directive 2009/125/EC



Working temperature min.
-10 °C



Working temperature max.
35 °C

Reserve technical changes

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WEEE-Reg.-Nr.: DE 66 42 40 57

Kommanditgesellschaft: Sitz Lauda-Königshofen
Registergericht Mannheim • HRA 560069

Persönlich haftende Gesellschafterin:
LAUDA DR. R. WOBSEY Verwaltungs-GmbH
Sitz Lauda-Königshofen
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.	125 L
Pump Pressure max.	5,3 bar (50 Hz), 7,5 bar (60 Hz)
Pump Pressure nominal	4.6 bar (50 Hz); 6.9 bar (60 Hz)
Pump flow rate max. (pressure)	367 L/min (50 Hz); 450 L/min (60 Hz)
Pump flow rate nominal	250 L/min
In / Outlet connection thread (inside)	Rp 2 1/2
Overall dimensions (WxDxH)	1256 x 1706 x 1905 mm
Weight	682 kg
Noise level	67.2 dB(A)
Refrigerant stage 1	R-410A (GWP 2088); 11.000 kg; 23.0 t CO ₂ -eq
SEPR	6.87
Power supply	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Power plug	---

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Temperature	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
25 °C	104.3 kW	104.3 kW
20 °C	101.4 kW	101.4 kW
15 °C	91.8 kW	91.8 kW
10 °C	79 kW	79 kW
5 °C	67.5 kW	67.5 kW
0 °C	56.2 kW	56.2 kW
-5 °C	47.1 kW	47.1 kW
-10 °C	39 kW	39 kW

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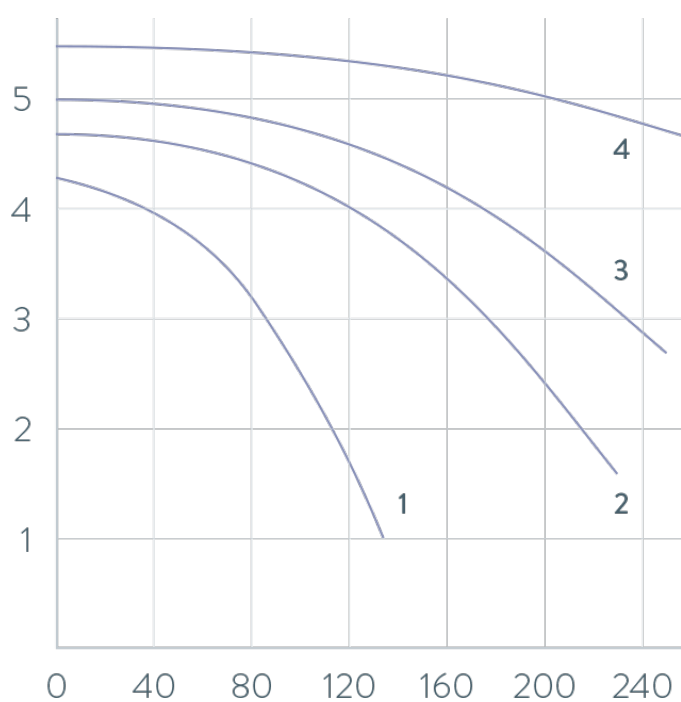
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PUMP CHARACTERISTIC Heat transfer liquid: Water

Pressure bar



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

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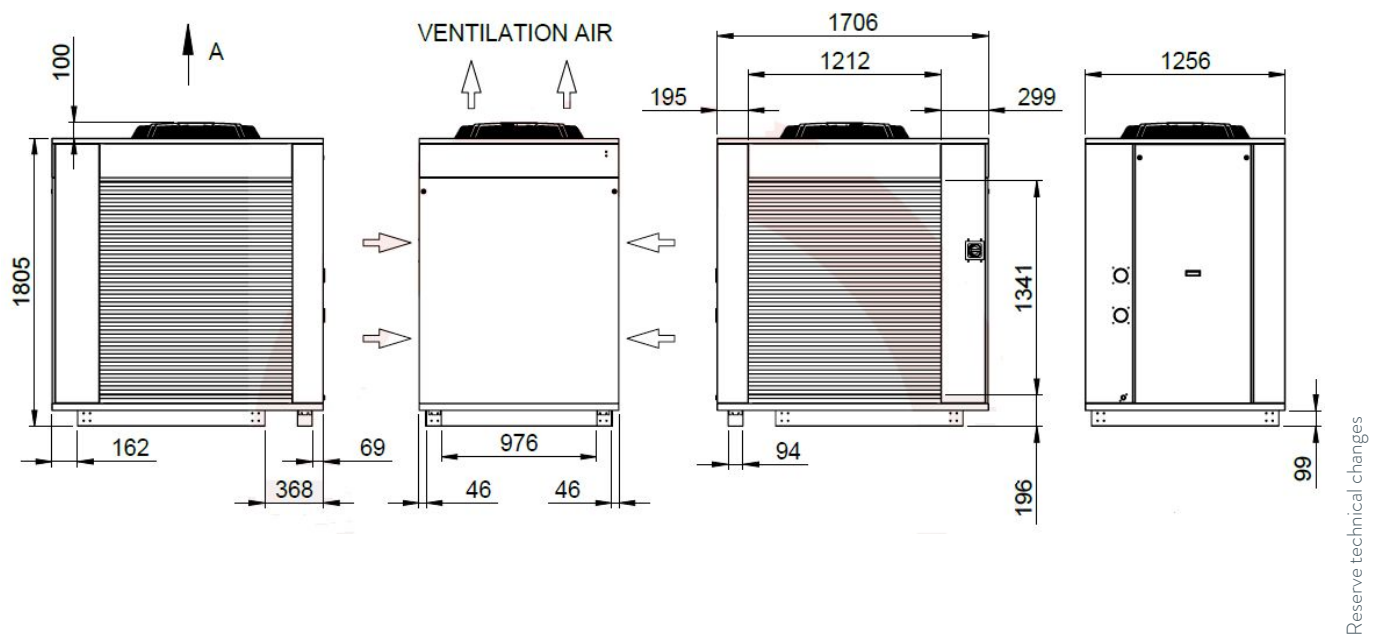
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