

PRODUCT DATA SHEET

Published: 2026-06-22

LAUDA Ultracool UC 100 Circulation chiller
400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Part Number: L004611

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

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	1 ± K
Filling volume max.	125 L
Pump Pressure max.	5,3 bar (50 Hz), 7,5 bar (60 Hz)
Pump Pressure nominal	3.8 bar (50 Hz); 6.4 bar (60 Hz)
Pump flow rate max. (pressure)	367 L/min (50 Hz); 450 L/min (60 Hz)
Pump flow rate nominal	300 L/min
Overall dimensions (WxDxH)	1256 x 1706 x 1905 mm
Weight	700 kg
Refrigerant stage 1	R-290 (GWP 3); 3.100 kg; 0.0 t CO ₂ -eq
Minimum room size, depending on the refrigerant	409,2 m ³
SEPR	5.67
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	132.2 kW	132.2 kW
20 °C	125.6 kW	125.6 kW
15 °C	114.3 kW	114.3 kW
10 °C	99.1 kW	99.1 kW
5 °C	85.2 kW	85.2 kW
0 °C	72.7 kW	72.7 kW
-5 °C	61.4 kW	61.4 kW
-10 °C	51.5 kW	51.5 kW

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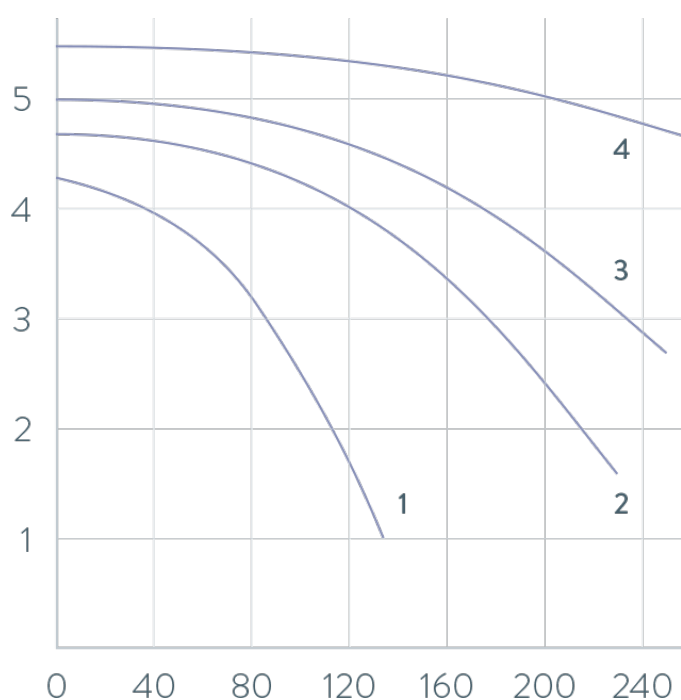
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PUMP CHARACTERISTIC Heat transfer liquid: Water

Pressure bar



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

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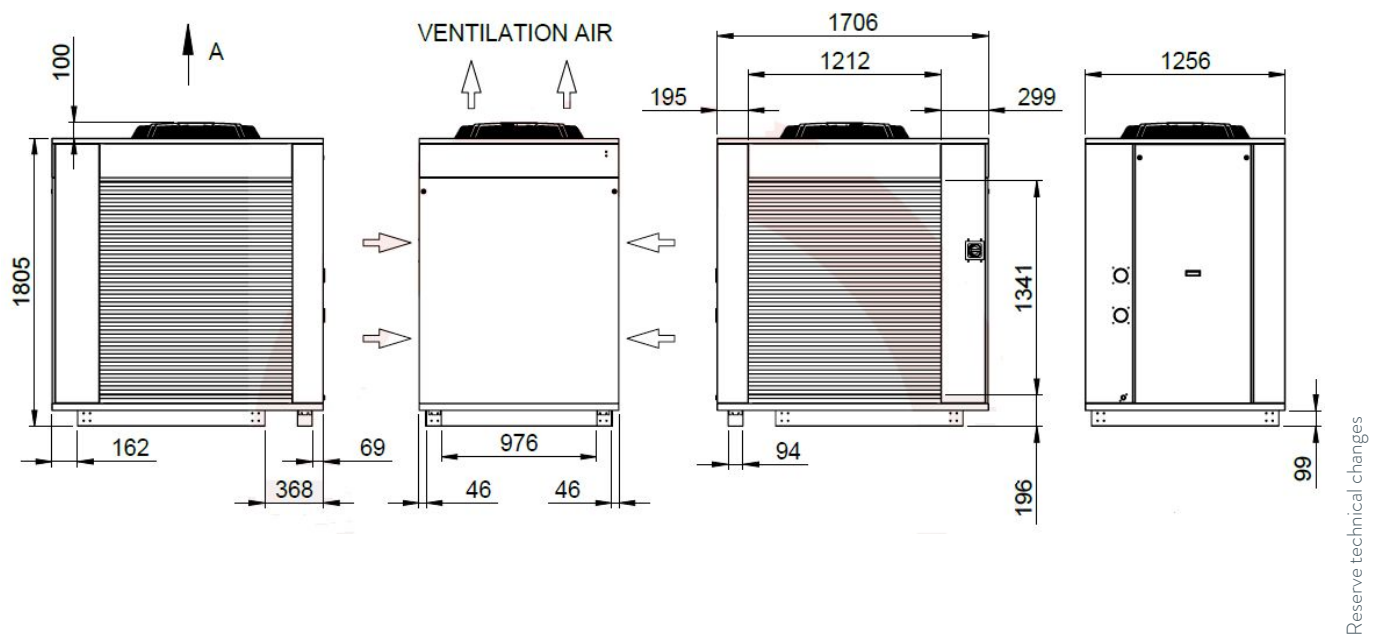
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