

## PRODUCT DATA SHEET

Published: 2026-06-22

LAUDA Ultracool UC 50 W Circulation chiller  
400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz  
Part Number: L003318

### 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
- 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
- Condenser cooling Water

### Options included

- Water cooled version (W)



Reserve technical changes



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

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.                       | 3,8 bar (50 Hz), 5,6 bar (60 Hz)                        |
| Pump Pressure nominal                    | 3.1 bar (50 Hz); 5.0 bar (60 Hz)                        |
| Pump flow rate max. (pressure)           | 242 L/min (50 Hz); 292 L/min (60 Hz)                    |
| Pump flow rate nominal                   | 150 L/min                                               |
| In / Outlet connection thread (inside)   | Rp 1 1/2                                                |
| Water cooling connection thread (inside) | Rp 1 1/2                                                |
| Overall dimensions (WxDxH)               | 1040 x 1435 x 1890 mm                                   |
| Weight                                   | 410 kg                                                  |
| Noise level                              | 68.7 dB(A)                                              |
| Refrigerant stage 1                      | R-410A (GWP 2088); 6.000 kg; 12.5 t CO <sub>2</sub> -eq |
| SEPR                                     | 7.08                                                    |
| 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       | 67.5 kW                | 67.5 kW                |
| 20 °C       | 65.6 kW                | 65.6 kW                |
| 15 °C       | 59.4 kW                | 59.4 kW                |
| 10 °C       | 51.2 kW                | 51.2 kW                |
| 5 °C        | 43.7 kW                | 43.7 kW                |
| 0 °C        | 36.4 kW                | 36.4 kW                |
| -5 °C       | 30.4 kW                | 30.4 kW                |
| -10 °C      | 25.2 kW                | 25.2 kW                |

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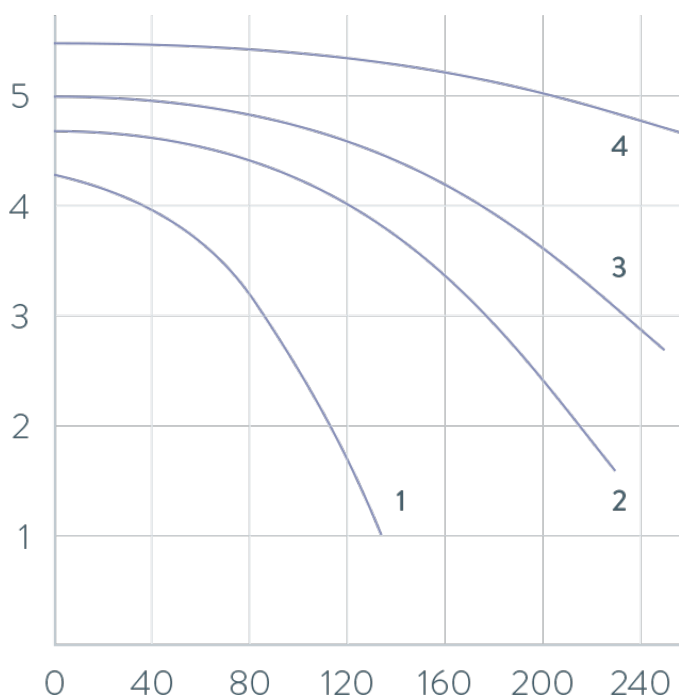
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### PUMP CHARACTERISTIC Heat transfer liquid: Water

Pressure bar



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

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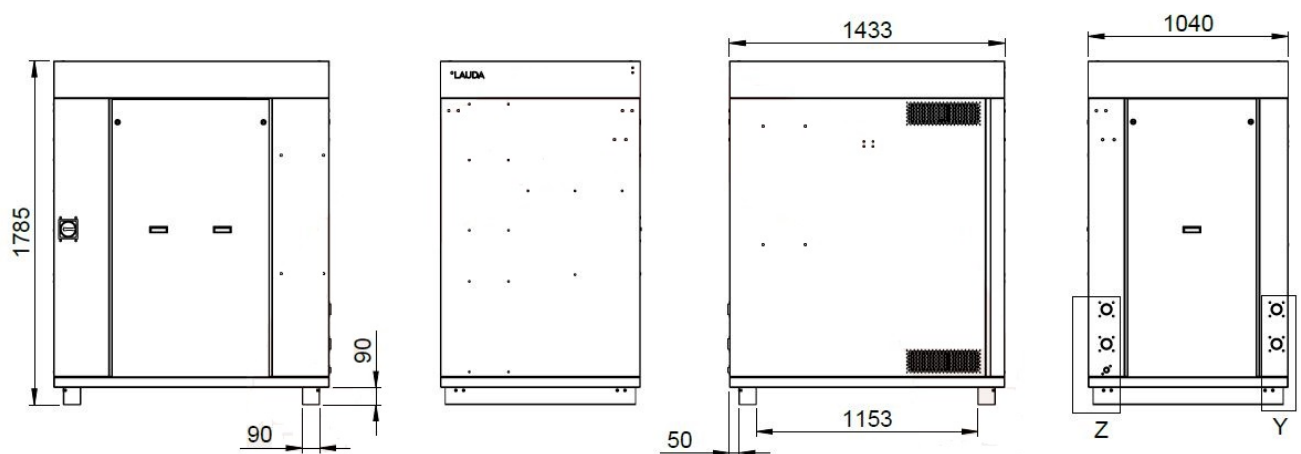
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