

## PRODUCT DATA SHEET

Published: 2026-07-22

LAUDA Integral IN 530 TW Process thermostat  
400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz  
Part Number: L002667

### Features

- Process thermostat with integrated cooling system for dynamic temperature control within external circuits
- Coloured TFT display for simultaneous indication of actual & set values and graphic illustration of the temperature profile
- Clear text menu navigation, six selectable languages DE, EN, FR, ES, IT, RU
- Management of heat transfer liquids with stored properties
- Easy input via cursor and soft keys. Additional Tmax key for overtemperature protection
- SelfCheck Assistant for system diagnosis
- Fully electronic continuous controller with PID action for internal & external control
- Self adapt function for determination of control parameters
- PowerAdapt system for the use of the maximum possible amount of heat permitted by the power supply system
- Low-level and adjustable over-temperature protection with acoustic alarm for use with flammable and non-flammable liquids
- Extremely powerful pressure pump
- USB and Ethernet interface equipped as standard
- Port for external Pt100 integrated, second external Pt100 feasible via interface module
- Remote fault indication through floating contact
- Option for upgrading up to 2 additional interfaces (RS 232/485, Profibus, analogue, contact or EtherCAT module)
- Programmer with 150 temperature/time segments that can be separated into 5 programs
- Adjustable bypass for pressure limiting
- Digital display of pump pressure
- Integrated web server for browser based operation in local area networks via PC, tablet or smart phone, secure data transfer due to authentication procedure and encryption
- SmartCool system for energy-saving digital cooling management including compressor on-off control
- Condenser cooling Water
- Utilises traditional refrigerants (HFCs) in accordance with European legislation to control F-gases (EU) 573/2024



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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Working temperature min.  
-32 °C



Working temperature max.  
120 °C

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### Technical Features (according to DIN 12876)

|                                               |                                                         |
|-----------------------------------------------|---------------------------------------------------------|
| Working temperature range                     | -32 ... 120 °C                                          |
| Ambient temperature range                     | 5 ... 40 °C                                             |
| Temperature stability                         | 0.05 ± K                                                |
| Heater power max.                             | 8 kW                                                    |
| Power consumption max.                        | 11 kW                                                   |
| Current max.                                  | 16 A                                                    |
| Pump Pressure max.                            | 3,5 bar (50 Hz), 4,6 bar (60 Hz)                        |
| Pump flow rate max. (pressure)                | 40 L/min (50 Hz); 65 L/min (60 Hz)                      |
| In / Outlet connection thread (outside)       | G 3/4"                                                  |
| Inlet/outlet hose size                        | 3/4"                                                    |
| Filling volume min.                           | 7.2 L                                                   |
| Filling volume max.                           | 20.5 L                                                  |
| Water cooling connection thread (outside)     | 3/4 "                                                   |
| Recommended cooling water temperature         | 15 °C                                                   |
| Cooling water temperature max.                | 30 °C                                                   |
| Cooling water consumption                     | 14.5 L/min                                              |
| Recommended pressure difference cooling water | 3 bar                                                   |
| Pressure difference cooling water min.        | 0.8 bar                                                 |
| Max. pressure difference cooling water        | 10 bar                                                  |
| Maximum pressure cooling water                | 10 bar                                                  |
| Overall dimensions (WxDxH)                    | 560 x 550 x 1325 mm                                     |
| Weight                                        | 150 kg                                                  |
| Noise level                                   | 62 dB(A)                                                |
| Refrigerant stage 1                           | R-449A (GWP 1397); 1.200 kg; 1.7 t CO <sub>2</sub> -eq  |
| Power supply                                  | 400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz                 |
| Power plug                                    | Power cord with plug (IEC 60309, 5-pol, CEE, red, 16 A) |

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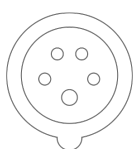
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Power cord with plug (IEC 60309, 5-pol, CEE, red, 16 A)

| Temperature | Heat transfer liquid | Cooling Capacity 50 Hz | Cooling Capacity 60 Hz |
|-------------|----------------------|------------------------|------------------------|
| 100 °C      | Thermal oil          | 6 kW                   | 6 kW                   |
| 20 °C       | Ethanol              | 6 kW                   | 6 kW                   |
| 10 °C       | Ethanol              | 5.5 kW                 | 5.5 kW                 |
| 0 °C        | Ethanol              | 4.5 kW                 | 4.5 kW                 |
| -10 °C      | Ethanol              | 3 kW                   | 3 kW                   |
| -20 °C      | Ethanol              | 1.6 kW                 | 1.6 kW                 |
| -30 °C      | Ethanol              | 0.7 kW                 | 0.7 kW                 |

Reserve technical changes

### Standard accessories

- 2 nipples 3/4" with screw cap G3/4 for pump connectors
- 2 nipples 1/2" with screw cap G3/4 for cooling water

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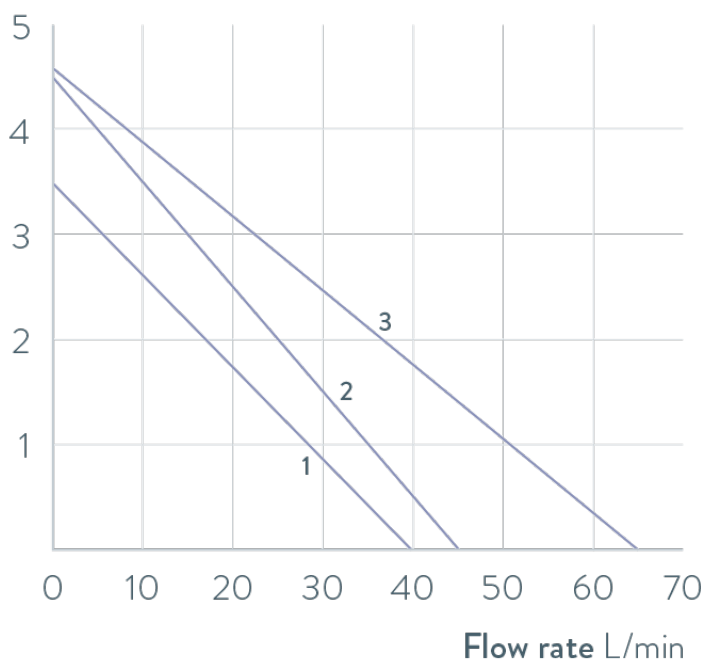
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### PUMP CHARACTERISTICS Heat transfer liquid: Water

Pressure bar



- 1 50 Hz
- 2 60 Hz  
(IN 130 T,  
IN 230 T,  
IN 230 TW)
- 3 60 Hz  
(IN 530 T,  
IN 530 TW)

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