

## PRODUCT DATA SHEET

Published: 2026-07-22

LAUDA Integral IN 8 XTW Process thermostat  
400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz  
Part Number: L002683

### Features

- High-temperature process thermostat 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
- Powerful LAUDA Variopump (pressure pump) with 8 selectable output levels or control of outflow pressure
- 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)
- Integrated and adjustable bypass
- Programmer with 150 temperature/time segments that can be separated into 5 programs
- Very small internal volume and big non-thermostated expansion vessel (cold fluid layer system)
- 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
- Water cooled system
- Cooling water supply necessary during operation



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:  
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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.  
25 °C



Working temperature max.  
320 °C

### Technical Features

|                                           |                                                         |
|-------------------------------------------|---------------------------------------------------------|
| Working temperature range                 | 25 ... 320 °C                                           |
| Ambient temperature range                 | 5 ... 40 °C                                             |
| Temperature stability                     | 0.1 ± K                                                 |
| Heater power max.                         | 8 kW                                                    |
| Power consumption max.                    | 9 kW                                                    |
| Current max.                              | 13.5 A                                                  |
| Pump Pressure max.                        | 3,1 bar                                                 |
| Pump flow rate max. (pressure)            | 60 L/min                                                |
| In / Outlet connection thread (outside)   | M30 x 1,5                                               |
| Inlet/outlet hose size                    | 3/4"                                                    |
| Filling volume min.                       | 3.6 L                                                   |
| Filling volume max.                       | 9.8 L                                                   |
| Water cooling connection thread (outside) | 3/4 "                                                   |
| Recommended cooling water temperature     | 15 °C                                                   |
| Cooling water temperature max.            | 30 °C                                                   |
| Cooling water consumption                 | 11 L/min                                                |
| Pressure difference cooling water min.    | 3 bar                                                   |
| Maximum pressure cooling water            | 10 bar                                                  |
| Overall dimensions (WxDxH)                | 430 x 550 x 760 mm                                      |
| Weight                                    | 86 kg                                                   |
| Noise level                               | 52 dB(A)                                                |
| 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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Power cord with plug (IEC 60309, 5-pol, CEE, red, 16 A)

| Temperature | Pump stage | Heat transfer liquid | Cooling Capacity 50 Hz | Cooling Capacity 60 Hz |
|-------------|------------|----------------------|------------------------|------------------------|
| 300 °C      | 8          | Thermal oil          | 17 kW                  | 17 kW                  |
| 200 °C      | 8          | Thermal oil          | 17 kW                  | 17 kW                  |
| 150 °C      | 8          | Thermal oil          | 17 kW                  | 17 kW                  |
| 100 °C      | 8          | Thermal oil          | 10 kW                  | 10 kW                  |
| 50 °C       | 8          | Thermal oil          | 2 kW                   | 2 kW                   |

Reserve technical changes

### Standard accessories

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

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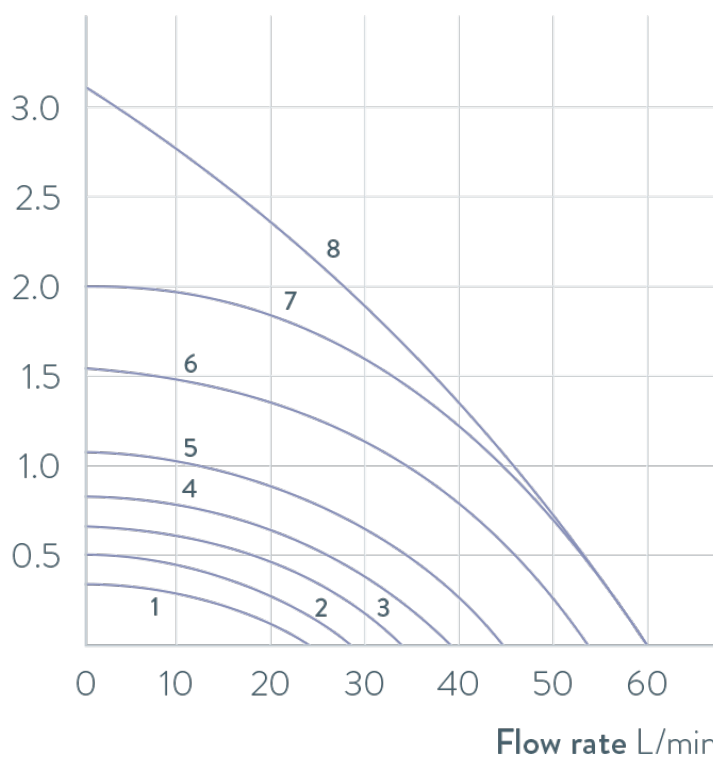
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### PUMP CHARACTERISTICS Heat transfer liquid: Water

Pressure bar



- 1 Stage 1
- 2 Stage 2
- 3 Stage 3
- 4 Stage 4
- 5 Stage 5
- 6 Stage 6
- 7 Stage 7
- 8 Stage 8

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