

## PRODUCT DATA SHEET

Standing: 2021-10-29

LAUDA Integral IN 2560 PW Process thermostat  
 400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz  
 Part Number: L003308

### Features

- Process thermostat for pressurised operation with integrated cooling system for dynamic temperature control within external circuits
- For use with non-flammable liquids
- 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
- Powerful LAUDA Variopump (pressure pump) with 5 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
- Digital display of pump pressure
- Very small internal volume and big non-thermostated expansion vessel (cold fluid layer system)
- Filling by using compressed air or a drum pump



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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### Features

- 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) 517/2014



Working temperature min.  
-40 °C



Working temperature max.  
140 °C

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### Technical Features

|   |  |
|---|--|
| Working temperature range                 | -40 ... 140 °C   |
| Pressurised blanket max.                  | 4 bar  |
| Ambient temperature range                 | 5 ... 40 °C  |
| Temperature stability                     | 0.1 ± K  |
| Heater power max.                         | 24 kW  |
| Power consumption max.                    | 37 kW  |
| Current max.                              | 60 A   |
| Pump Pressure max.                        | 6.0 bar  |
| Pump flow rate pressure max.              | 100 L/min  |
| In / Outlet connection thread (outside)   | M38 x 1,5  |
| Inlet/outlet hose size                    | 1 "  |
| Filling volume min.                       | 12.1 L   |
| Filling volume max.                       | 48.1 L   |
| Water cooling connection thread (outside) | 3/4 "  |
| Recommended cooling water temperature     | 15 °C  |
| Cooling water flow rate                   | 29 L/min   |
| Pressure difference cooling water min.    | 3 bar  |
| Maximal pressure cooling water            | 10 bar   |
| Overall dimensions (WxDxH)                | 1100 x 895 x 1865 mm                                     |
| Noise level                               | 74 dB(A)   |
| Refrigerant stage 1                       | R-449A (GWP 1397); 4.000 kg; 5.6 t CO <sub>2</sub> -eq   |
| Power supply                              | 400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz                  |
| Power plug                                | electric connection box without power cord, without plug |

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| Temperature | Pump stage | Heat transfer liquid | Cooling Capacity 50 Hz | Cooling Capacity 60 Hz |
|-------------|------------|----------------------|------------------------|------------------------|
| 140 °C      | 8          | Waterglycol          | 25 kW                  | 28 kW                  |
| 100 °C      | 8          | Waterglycol          | 25 kW                  | 28 kW                  |
| 20 °C       | 8          | Waterglycol          | 25 kW                  | 28 kW                  |
| 10 °C       | 8          | Waterglycol          | 25 kW                  | 28 kW                  |
| 0 °C        | 8          | Waterglycol          | 24.5 kW                | 27.5 kW                |
| -10 °C      | 8          | Waterglycol          | 24 kW                  | 27 kW                  |
| -20 °C      | 8          | Waterglycol          | 17.7 kW                | 19 kW                  |
| -30 °C      | 8          | Waterglycol          | 11 kW                  | 12 kW                  |
| -40 °C      | 8          | Waterglycol          | 7.5 kW                 | 7.7 kW                 |

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