

# PRODUCT DATA SHEET

Standing: 2023-12-15

LAUDA Integral IN 130 T

Process thermostat 230 V; 50 Hz

Part Number: L002663

## 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 Air
- Utilises traditional refrigerants (HFCs) in accordance with European legislation to control F-gases (EU) 517/2014



Reserve technical changes

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Dr. Gunther Wobser (Vors.), Dr. Mario Englert,  
Dr. Ralf Hermann, Dr. Marc Stricker  
Beirat: Dr. Gerhard Wobser

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Working temperature min.  
-30 °C



Working temperature max.  
120 °C

## Technical Features (according to DIN 12876)

|                                         |                                           |
|-----------------------------------------|-------------------------------------------|
| Working temperature range               | -30 ... 120 °C                            |
| Ambient temperature range               | 5 ... 40 °C                               |
| Temperature stability                   | 0.05 ± K                                  |
| Heater power max.                       | 2.7 kW                                    |
| Power consumption max.                  | 3.7 kW                                    |
| Current max.                            | 16 A                                      |
| Pump Pressure max.                      | 3,5 bar                                   |
| Pump flow rate max. (pressure)          | 40 L/min                                  |
| In / Outlet connection thread (outside) | G 3/4"                                    |
| Inlet/outlet hose size                  | 3/4"                                      |
| Filling volume min.                     | 3.6 L                                     |
| Filling volume max.                     | 8.7 L                                     |
| Overall dimensions (WxDxH)              | 430 x 550 x 760 mm                        |
| Noise level                             | 61 dB(A)                                  |
| Refrigerant stage 1                     | R-449A (GWP 1397); 0.400 kg; 0.6 t CO2-eq |
| Power supply                            | 230 V; 50 Hz                              |
| Power plug                              | Power cord with angled plug (CEE7/7)      |

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| Temperature | Heat transfer liquid | Cooling Capacity 50 Hz |
|-------------|----------------------|------------------------|
| 100 °C      | Thermal oil          | 1.4 kW                 |
| 20 °C       | Ethanol              | 1.4 kW                 |
| 10 °C       | Ethanol              | 1.35 kW                |
| 0 °C        | Ethanol              | 1.2 kW                 |
| -10 °C      | Ethanol              | 0.8 kW                 |
| -20 °C      | Ethanol              | 0.4 kW                 |
| -30 °C      | Ethanol              | 0.1 kW                 |

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