

PRODUCT DATA SHEET

Standing: 2021-07-21

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



Reserve technical changes

PRODUCT DATA SHEET

Standing: 2021-07-21

LAUDA Integral IN 130 T
 Process thermostat 230 V; 50 Hz
 Part Number: L002663

Features

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



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 |
| Power consumption | 16 A |
| Pump Pressure max. | 3.5 bar |
| Pump flow rate pressure max. | 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 CO ₂ -eq |
| Power supply | 230 V; 50 Hz |
| Power plug | Power cord with angled plug (CEE7/7) |

Reserve technical changes

PRODUCT DATA SHEET

Standing: 2021-07-21

LAUDA Integral IN 130 T

Process thermostat 230 V; 50 Hz

Part Number: L002663

| 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 |