

PRODUCT DATA SHEET

Standing: 2024-03-18

LAUDA Integral IN 1030 T Process thermostat
 400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
 Part Number: L002885

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
- Additional pump for internal circulation
- 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) 573/2024



Reserve technical changes

LAUDA DR. R. WOBSEY GMBH & CO. KG
 Laudaplatz 1 • 97922 Lauda-Königshofen • DE

T + 49 (0) 9343 503-0
 info@lauda.de • www.lauda.de
 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. Ralf Hermann, Dr. Marc Stricker
 Beirat: Dr. Gerhard Wobser

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Working temperature min.
 -30 °C



Working temperature max.
 150 °C

Technical Features (according to DIN 12876)

Working temperature range	-30 ... 150 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.1 ± K
Heater power max.	8 kW
Power consumption max.	11 kW
Current max.	16 A
Pump Pressure max.	5,5 bar (50 Hz), 7,0 bar (60 Hz)
Pump flow rate max. (pressure)	60 L/min (50 Hz); 70 L/min (60 Hz)
In / Outlet connection thread (outside)	M38 x 1,5
Inlet/outlet hose size	1"
Filling volume min.	9.7 L
Filling volume max.	25.5 L
Overall dimensions (WxDxH)	760 x 650 x 1605 mm
Weight	219 kg
Noise level	70 dB(A)
Refrigerant stage 1	R-449A (GWP 1397); 2.000 kg; 2.8 t CO ₂ -eq
Power supply	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Power plug	Power cord with plug (NEMA L16-20P twist lock; 20 A)
Certification	NRTL according to UL 1995:2018, CSA C22.2 no. 236-15 Ed.5th

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Temperature	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
100 °C	Thermal oil	11 kW	11 kW
20 °C	Ethanol	11 kW	11 kW
10 °C	Ethanol	9.5 kW	9.5 kW
0 °C	Ethanol	7.1 kW	7.1 kW
-10 °C	Ethanol	4.9 kW	4.9 kW
-20 °C	Ethanol	3 kW	3 kW
-30 °C	Ethanol	1.6 kW	1.6 kW

Standard accessories

- 2 nipples 1" with screw cap M38 x 1,5 for pump connectors

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