PRODUCT DATA SHEET

Published: 2026-11-20

LAUDA Integral IN 280 XT
Process thermostat 230 V; 50 Hz
Part Number: L004901



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
- 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
- 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
- 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
- Digital display of pump pressure
- Management of heat transfer liquids with stored properties
- Integrated and adjustable bypass
- Very small internal volume and big non-thermostated expansion vessel (cold fluid layer 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
- CDA (Clean-Dry-Air) - Pressure superposition for refrigeration and hydraulic block
- Highly efficient SmartCool system for energy-saving digital cooling control with speed-controlled compressor
- Condenser cooling Air

Reserve technical changes

LAUDA DR. R. WOBSER 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. WOBSER Verwaltungs-GmbH
Sitz Lauda-Königshofen
Registergericht Mannheim • HRB 560226

Geschäftsführer:
Dr. Gunther Wobser (Vors.),
Dr. Marc Stricker
Beirat: Dr. Gerhard Wobser

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Features

- Utilizes natural refrigerants

Working temperature min.
-80 °C

Working temperature max.
220 °C

Technical Features (according to DIN 12876)	
Working temperature range	-80 ... 220 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.05 ± K
Current max.	13 A
Pump Pressure max.	3,1 bar
Pump flow rate max. (pressure)	65 L/min
In / Outlet connection thread (outside)	M30 x 1,5
Filling volume min.	4.8 L
Filling volume max.	17.2 L
Overall dimensions (WxDxH)	560 x 550 x 1325 mm
Refrigerant stage 1	R-1270 (GWP 2); 0.150 kg; 0.0 t CO2-eq
Refrigerant stage 2	R-170 (GWP 6); 0.150 kg; 0.0 t CO2-eq
Power supply	230 V; 50 Hz
Power plug	Power cord with angled plug (BS1363)

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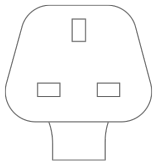
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Power cord with angled plug (BS1363)

Temperature	Pump stage	Heat transfer liquid	Cooling Capacity 50 Hz
200 °C	8	Thermal oil	1.6 kW
100 °C	8	Thermal oil	1.6 kW
20 °C	8	Ethanol	1.6 kW
10 °C	8	Ethanol	1.5 kW
0 °C	8	Ethanol	1.5 kW
-10 °C	8	Ethanol	1.5 kW
-20 °C	4	Ethanol	1.7 kW
-30 °C	4	Ethanol	1.7 kW
-40 °C	4	Ethanol	1.6 kW
-50 °C	4	Ethanol	1.4 kW
-60 °C	4	Ethanol	0.85 kW
-70 °C	4	Ethanol	0.4 kW
-80 °C	2	Ethanol	0.2 kW

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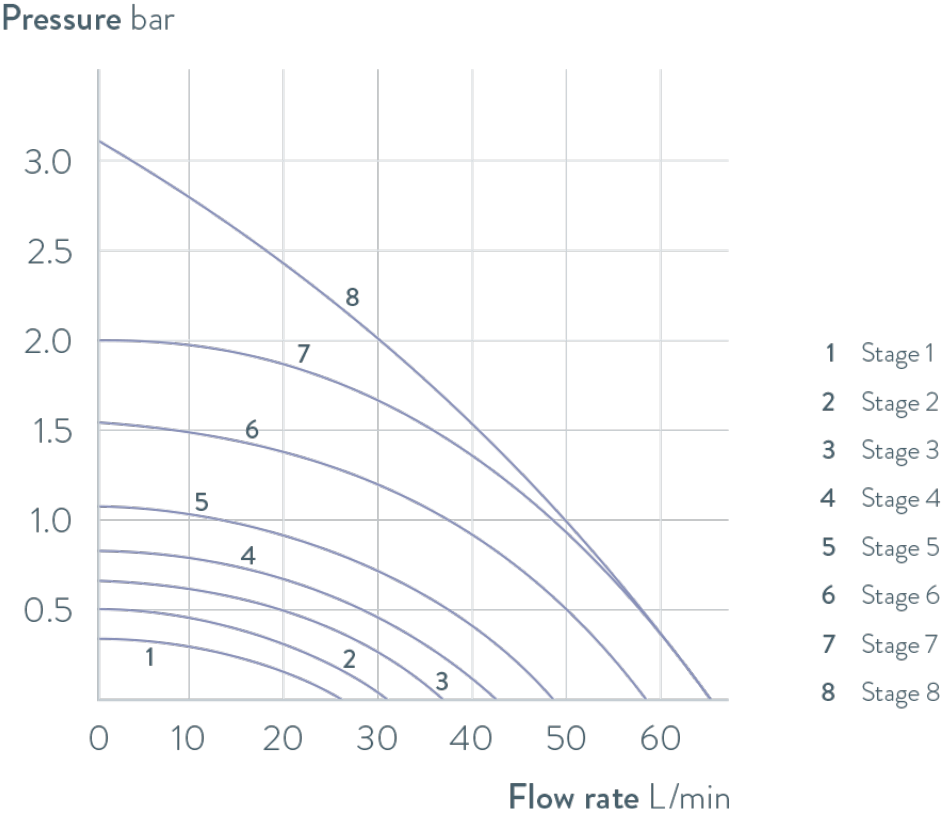
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PUMP CHARACTERISTICS Heat transfer liquid: Water



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