

## PRODUCT DATA SHEET

Standing: 2024-09-16

LAUDA Integral IN 250 XTW

Process thermostat 208-220 V; 60 Hz

Part Number: L003305

### 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
- USB and Ethernet interface equipped as standard
- Powerful LAUDA Variopump (pressure pump) with 8 selectable output levels or control of outflow pressure
- 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
- Very small internal volume and big non-thermostated expansion vessel (cold fluid layer system)
- 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
- 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) 573/2024



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. Gunter Wobser (Vors.), Dr. Mario Englert,  
Dr. Marc Stricker  
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Working temperature min.  
-45 °C



Working temperature max.  
220 °C

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## Technical Features (according to DIN 12876)

Working temperature range	-45 ... 220 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.05 ± K
Heater power max.	3.4 kW
Power consumption max.	3.5 kW
Current max.	16 A
Pump Pressure max.	3,1 bar
Pump flow rate max. (pressure)	65 L/min
In / Outlet connection thread (outside)	M30 x 1,5
Inlet/outlet hose size	3/4"
Filling volume min.	2.5 L
Filling volume max.	8.7 L
Water cooling connection thread (outside)	3/4 "
Recommended cooling water temperature	15 °C
Cooling water temperature max.	30 °C
Cooling water flow rate	4.2 L/min
Recommended pressure difference cooling water	3 bar
Pressure difference cooling water min.	0.8 bar
Max. pressure difference cooling water	5 bar
Maximal pressure cooling water	10 bar
Overall dimensions (WxDxH)	430 x 550 x 760 mm
Weight	108 kg
Noise level	57 dB(A)
Refrigerant stage 1	R-449A (GWP 1397); 0.450 kg; 0.6 t CO2-eq
Power supply	208-220 V; 60 Hz
Power plug	Power cord with angled plug (CEE7/7)

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Temperature	Pump stage	Heat transfer liquid	Cooling Capacity 60 Hz
200 °C	8	Thermal oil	2.2 kW
100 °C	8	Thermal oil	2.2 kW
20 °C	8	Ethanol	2.1 kW
10 °C	8	Ethanol	2 kW
0 °C	8	Ethanol	1.8 kW
-10 °C	8	Ethanol	1.4 kW
-20 °C	4	Ethanol	1 kW
-30 °C	4	Ethanol	0.55 kW
-40 °C	4	Ethanol	0.2 kW
-45 °C	2	Ethanol	0.05 kW

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### Standard accessories

- 2 nipples 1/2" with screw cap G3/4 for cooling water

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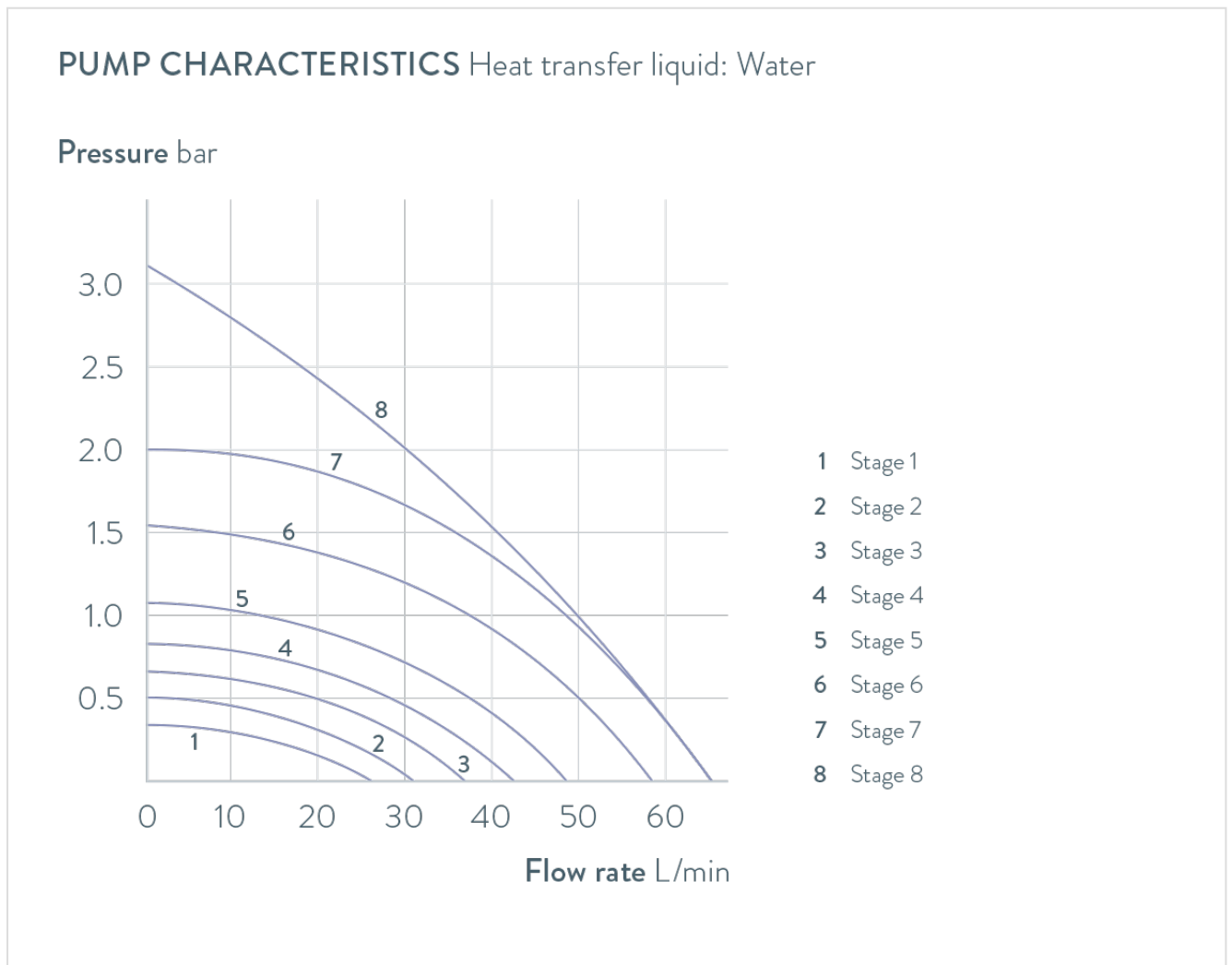
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