

PRODUCT DATA SHEET

Standing: 2025-08-21

LAUDA Integral IN 550 XTW

Process thermostat 400 V; 3/PE; 50 Hz

Part Number: L004070

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
- ATEX-certified gas warning sensors with warning and switch-off function and external status interface for higher-level safety systems
- Quick-stop function via black push-button and connection contacts for remote release
- 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
- Powerful LAUDA Variopump (pressure pump) with 8 selectable output levels or control of outflow pressure
- 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
- Integrated and adjustable bypass
- Digital display of pump pressure
- Very small internal volume and big non-thermostated expansion vessel (cold fluid layer system)
- SmartCool system for energy-saving digital cooling management including compressor on-off control



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. Marc Stricker
Beirat: Dr. Gerhard Wobser

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Features

- Condenser cooling Water
- Utilizes natural refrigerants



Working temperature min.
-50 °C



Working temperature max.
220 °C

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Technical Features (according to DIN 12876)

Working temperature range	-50 ... 220 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.05 ± K
Heater power max.	8 kW
Power consumption max.	10.5 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.	4.8 L
Filling volume max.	17.2 L
Water cooling connection thread (outside)	3/4 "
Recommended cooling water temperature	15 °C
Cooling water temperature max.	30 °C
Cooling water consumption	8 L/min
Recommended pressure difference cooling water	3 bar
Pressure difference cooling water min.	0.8 bar
Max. pressure difference cooling water	10 bar
Maximum pressure cooling water	10 bar
Overall dimensions (WxDxH)	560 x 550 x 1325 mm
Weight	181 kg
Noise level	60 dB(A)
Refrigerant stage 1	R-290 (GWP 3); 0.450 kg; 0.0 t CO2-eq
Power supply	400 V; 3/PE; 50 Hz
Power plug	Power cord with plug (IEC 60309, 5-pol, CEE, red, 16 A)

Reserve technical changes

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Power cord with plug (IEC 60309, 5-pol, CEE, red, 16 A)

Temperature	Pump stage	Heat transfer liquid	Cooling Capacity 50 Hz
200 °C	8	Thermal oil	5.8 kW
100 °C	8	Thermal oil	5.8 kW
20 °C	8	Ethanol	5.8 kW
10 °C	8	Ethanol	5.8 kW
0 °C	8	Ethanol	5.4 kW
-10 °C	8	Ethanol	4 kW
-20 °C	4	Ethanol	2.8 kW
-30 °C	4	Ethanol	1.7 kW
-40 °C	4	Ethanol	0.75 kW
-50 °C	2	Ethanol	0.35 kW

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Standard accessories

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

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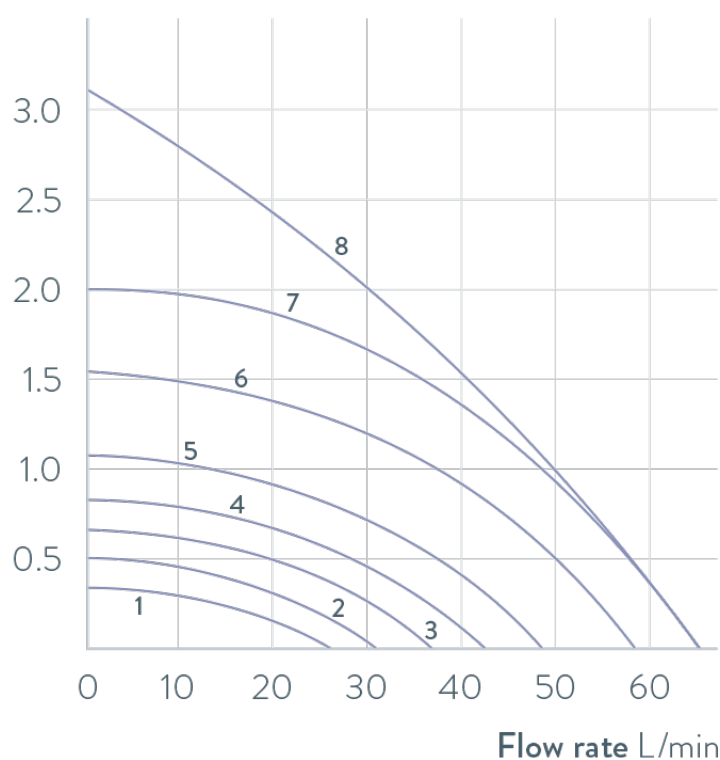
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PUMP CHARACTERISTICS Heat transfer liquid: Water

Pressure bar



- 1 Stage 1
- 2 Stage 2
- 3 Stage 3
- 4 Stage 4
- 5 Stage 5
- 6 Stage 6
- 7 Stage 7
- 8 Stage 8

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