PRODUCT DATA SHEET

Published: 2026-11-09

LAUDA Integral IN 3540 XTW Process thermostat 400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz Part Number: L004071

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
- Emergency stop function via 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 5 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)
- Integrated and adjustable bypass
- Programmer with 150 temperature/time segments that can be separated into 5 programs
- Digital display of pump pressure
- 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
- Highly efficient SmartCool system for energy-saving digital cooling control with speed-controlled compressor
- Water cooled system
- Utilizes natural refrigerants CO2

Reserve technical changes

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Beirat: Dr. Gerhard Wobser

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Working temperature min.
-45 °C

Working temperature max.
200 °C

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Technical Features (according to DIN 12876)	
Working temperature range	-45 ... 200 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.1 ± K
Heater power max.	24 kW
Power consumption max.	30 kW
Current max.	40 A
Pump Pressure max.	6,0 bar
Pump flow rate max. (pressure)	100 L/min
In / Outlet connection thread (outside)	M38 x 1,5
Filling volume min.	15.6 L
Filling volume max.	37.4 L
Water cooling connection thread (outside)	3/4 ″
Recommended cooling water temperature	15 °C
Cooling water temperature max.	20 °C
Cooling water consumption	45 L/min
Recommended pressure difference cooling water	3 bar
Pressure difference cooling water min.	1 bar
Max. pressure difference cooling water	10 bar
Maximum pressure cooling water	10 bar
Overall dimensions (WxDxH)	1100 x 895 x 1865 mm
Weight	669 kg
Noise level	67 dB(A)
Refrigerant stage 1	R-744 (GWP 1); 3.200 kg; 0.0 t CO2-eq
Power supply	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Power plug	electric connection box without power cord, without plug

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Temperature	Pump stage	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
200 °C	8	Thermal oil	35 kW	35 kW
100 °C	8	Thermal oil	35 kW	35 kW
20 °C	8	Ethanol	35 kW	35 kW
10 °C	8	Ethanol	31.5 kW	31.5 kW
0 °C	8	Ethanol	28.5 kW	28.5 kW
-10 °C	8	Ethanol	22.5 kW	22.5 kW
-20 °C	4	Ethanol	18.5 kW	18.5 kW
-30 °C	4	Ethanol	12.5 kW	12.5 kW
-40 °C	4	Ethanol	9 kW	9 kW
-45 °C	4	Ethanol	7 kW	7 kW

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Standard accessories

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

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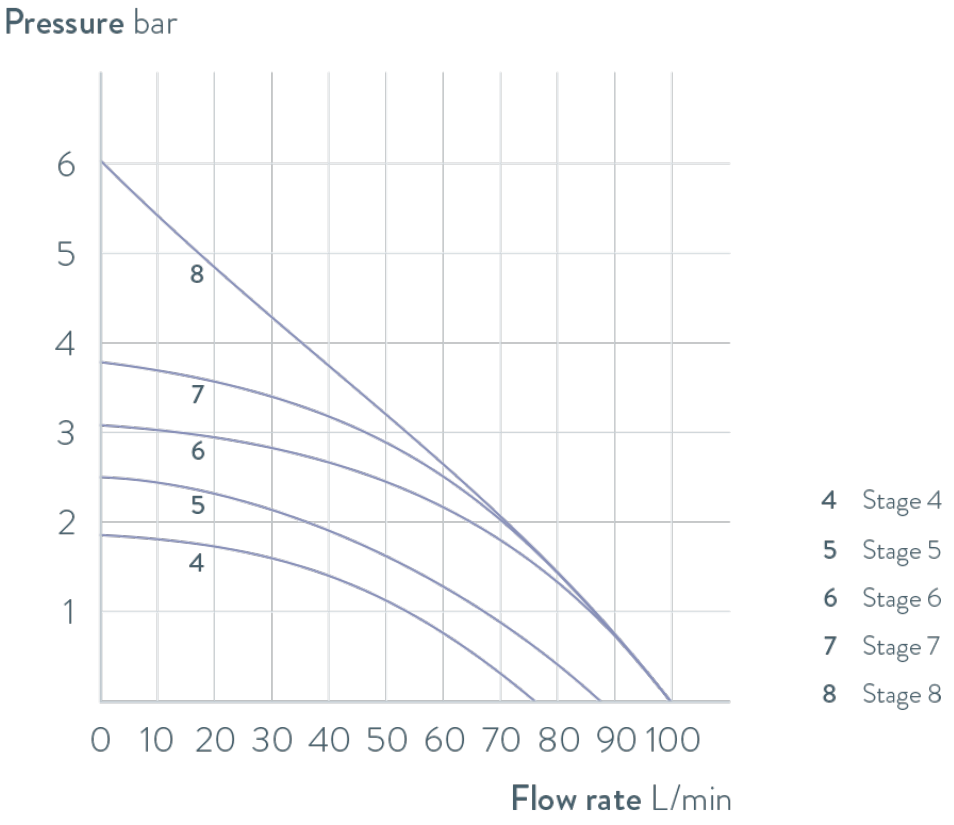
PUMP CHARACTERISTICS Heat transfer liquid: Water



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