

PRODUCT DATA SHEET

Standing: 2021-08-04

LAUDA Integral IN 2560 XTW Process thermostat
 400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
 Part Number: L002681

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
- 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)
- SmartCool system for energy-saving digital cooling management including compressor on-off control



Reserve technical changes

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Features

- 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
- Condenser cooling Water
- Utilises traditional refrigerants (HFCs) in accordance with European legislation to control F-gases (EU) 517/2014



Working temperature min.
-60 °C



Working temperature max.
220 °C

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Technical Features (according to DIN 12876)

Working temperature range	-60 ... 220 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.1 ± K
Heater power max.	24 kW
Power consumption max.	37 kW
Current max.	60 A
Pump Pressure max.	6.0 bar
Pump flow rate pressure max.	100 L/min
In / Outlet connection thread (outside)	M38x1,5
Inlet/outlet hose size	1 "
Filling volume min.	12.6 L
Filling volume max.	34.4 L
Water cooling connection thread (outside)	3/4 "
Recommended cooling water temperature	15 °C
Cooling water flow rate	29 L/min
Pressure difference cooling water min.	3 bar
Maximal pressure cooling water	10 bar
Overall dimensions (WxDxH)	1100 x 895 x 1865 mm
Noise level	72 dB(A)
Refrigerant stage 1	R-449A (GWP 1397); 4.000 kg; 5.6 t CO ₂ -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	25 kW	28 kW
100 °C	8	Thermal oil	25 kW	28 kW
20 °C	8	Ethanol	25 kW	28 kW
10 °C	8	Ethanol	24.5 kW	27.5 kW
0 °C	8	Ethanol	22.5 kW	25.5 kW
-10 °C	8	Ethanol	22 kW	25 kW
-20 °C	4	Ethanol	18.5 kW	21.1 kW
-30 °C	4	Ethanol	12.5 kW	14.9 kW
-40 °C	4	Ethanol	8.7 kW	9.5 kW
-50 °C	4	Ethanol	5 kW	5.4 kW
-60 °C	4	Ethanol	3 kW	3.3 kW

Reserve technical changes