

## PRODUCT DATA SHEET

Standing: 2021-07-21

LAUDA Integral IN 550 XT Process thermostat  
 400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz  
 Part Number: L002675

### 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 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)
- 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)



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
- SmartCool system for energy-saving digital cooling management including compressor on-off control
- Condenser cooling Air
- Utilises traditional refrigerants (HFCs) in accordance with European legislation to control F-gases (EU) 517/2014



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
Power consumption	16 A
Pump Pressure max.	3.1 bar
Pump flow rate pressure max.	65 L/min
In / Outlet connection thread (outside)	M30x1,5
Inlet/outlet hose size	3/4 "
Filling volume min.	4.8 L
Filling volume max.	17.2 L
Overall dimensions (WxDxH)	560 x 550 x 1325 mm
Noise level	65 dB(A)
Refrigerant stage 1	R-452A (GWP 2140); 1.400 kg; 3.0 t CO <sub>2</sub> -eq
Power supply	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Power plug	Power cord with plug (IEC 60309, 5-pol, CEE, red, 16 A)

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Temperature	Pump stage	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
200 °C	8	Thermal oil	5 kW	5 kW
100 °C	8	Thermal oil	5 kW	5 kW
20 °C	8	Ethanol	5 kW	5 kW
10 °C	8	Ethanol	4.8 kW	4.8 kW
0 °C	8	Ethanol	4.6 kW	4.6 kW
-10 °C	8	Ethanol	3.3 kW	3.3 kW
-20 °C	4	Ethanol	2.3 kW	2.3 kW
-30 °C	4	Ethanol	1.2 kW	1.2 kW
-40 °C	4	Ethanol	0.5 kW	0.5 kW
-50 °C	2	Ethanol	0.1 kW	0.1 kW

Reserve technical changes