

PRODUCT DATA SHEET

Standing: 2021-07-21

LAUDA Integral IN 550 XTW Process thermostat
 400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
 Part Number: L002676

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 Water
- 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 |
| Recommended cooling water temperature | 15 °C |
| Cooling water flow rate | 8 L/min |
| Pressure difference cooling water min. | 3 bar |
| Maximal pressure cooling water | 10 bar |
| Overall dimensions (WxDxH) | 560 x 550 x 1325 mm |
| Noise level | 62 dB(A) |
| Refrigerant stage 1 | R-452A (GWP 2140); 1.400 kg; 3.0 t CO ₂ -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 | 5.8 kW | 5.8 kW |
| 100 °C | 8 | Thermal oil | 5.8 kW | 5.8 kW |
| 20 °C | 8 | Ethanol | 5.8 kW | 5.8 kW |
| 10 °C | 8 | Ethanol | 5.8 kW | 5.8 kW |
| 0 °C | 8 | Ethanol | 5.4 kW | 5.4 kW |
| -10 °C | 8 | Ethanol | 4 kW | 4 kW |
| -20 °C | 4 | Ethanol | 2.6 kW | 2.6 kW |
| -30 °C | 4 | Ethanol | 1.45 kW | 1.45 kW |
| -40 °C | 4 | Ethanol | 0.55 kW | 0.55 kW |
| -50 °C | 2 | Ethanol | 0.12 kW | 0.12 kW |

Reserve technical changes