

PRODUCT DATA SHEET

Standing: 2025-03-04

LAUDA Integral IN 2040 XTW Process thermostat
 400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
 Part Number: L004065

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
- 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)
- 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



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

- Utilizes natural refrigerants CO2



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 | 0.05 ± K |
| Heater power max. | 16 kW |
| Power consumption max. | 18 kW |
| Current max. | 25 A |
| Pump Pressure max. | 6,0 bar |
| Pump flow rate max. (pressure) | 120 L/min |
| In / Outlet connection thread (outside) | M38 x 1,5 |
| Inlet/outlet hose size | 1" |
| Filling volume min. | 10.5 L |
| Filling volume max. | 30 L |
| Water cooling connection thread (outside) | 3/4 " |
| Recommended cooling water temperature | 15 °C |
| Cooling water temperature max. | 20 °C |
| Cooling water flow rate | 45 L/min |
| Recommended pressure difference cooling water | 3 bar |
| Pressure difference cooling water min. | 0.8 bar |
| Max. pressure difference cooling water | 10 bar |
| Maximal pressure cooling water | 10 bar |
| Overall dimensions (WxDxH) | 760 x 650 x 1605 mm |
| Weight | 454 kg |
| Noise level | 61 dB(A) |
| Refrigerant stage 1 | R-744 (GWP 1); 2.200 kg; 0.0 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, 32 A) |

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| Temperature | Pump stage | Heat transfer liquid | Cooling Capacity 50 Hz | Cooling Capacity 60 Hz |
|-------------|------------|----------------------|------------------------|------------------------|
| 200 °C | 8 | Thermal oil | 20.8 kW | 20.8 kW |
| 100 °C | 8 | Thermal oil | 20.8 kW | 20.8 kW |
| 20 °C | 8 | Ethanol | 20.8 kW | 20.8 kW |
| 10 °C | 8 | Ethanol | 20.5 kW | 20.5 kW |
| 0 °C | 8 | Ethanol | 17.8 kW | 17.8 kW |
| -10 °C | 8 | Ethanol | 14 kW | 14 kW |
| -20 °C | 4 | Ethanol | 10.5 kW | 10.5 kW |
| -30 °C | 4 | Ethanol | 6.6 kW | 6.6 kW |
| -40 °C | 4 | Ethanol | 3.5 kW | 3.5 kW |
| -45 °C | 4 | Ethanol | 2.2 kW | 2.2 kW |

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Standard accessories

- 2 nipples 3/4" with screw cap G3/4 for cooling water

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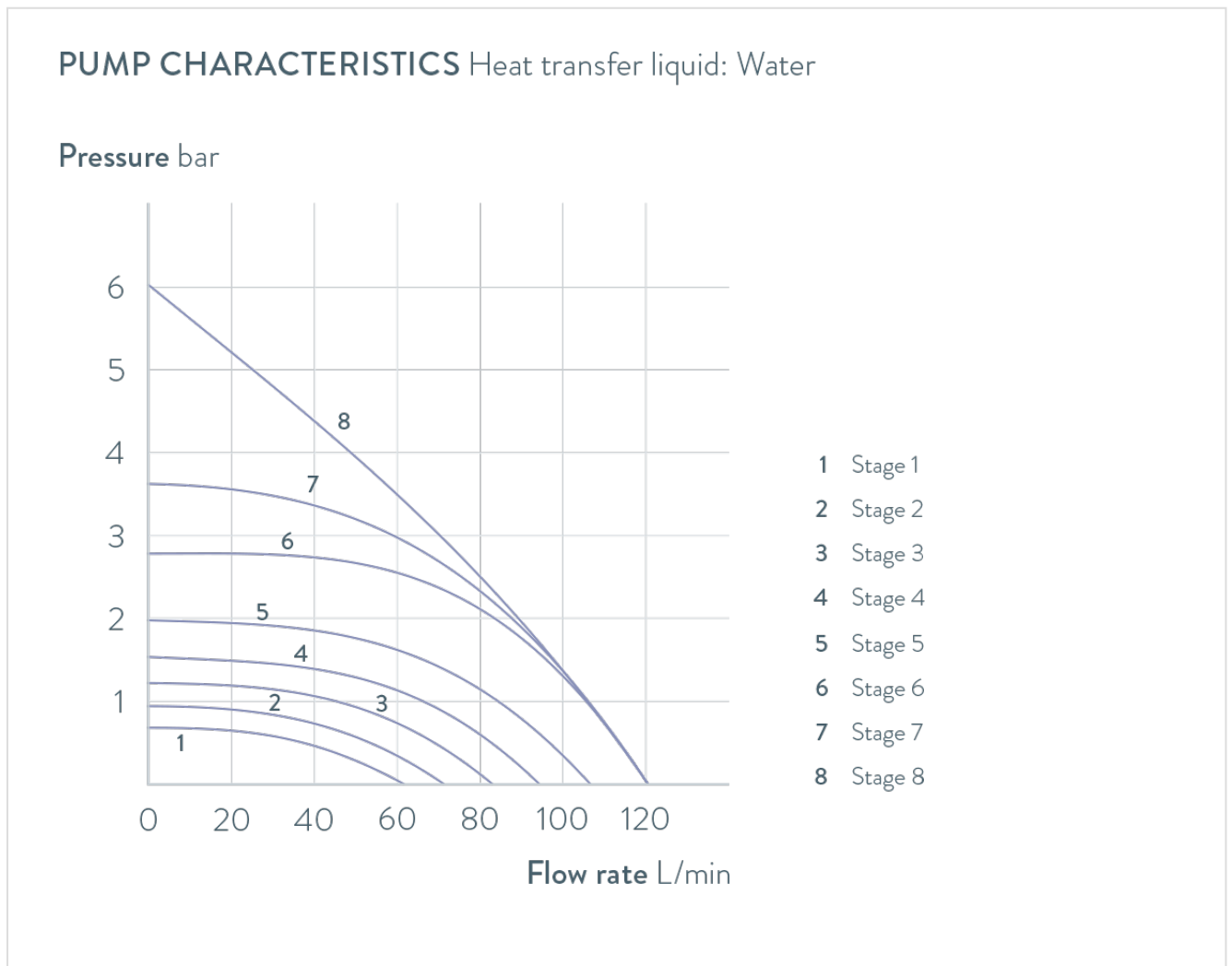
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