

PRODUCT DATA SHEET

Standing: 2023-02-15

LAUDA Integral IN 750 XT Process thermostat
 400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
 Part Number: L002889

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)
- 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



Reserve technical changes

LAUDA DR. R. WOBSEY GMBH & CO. KG
 Laudaplatz 1 • 97922 Lauda-Königshofen • DE

T + 49 (0) 9343 503-0 • F + 49 (0) 9343 503-222
 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. Ralf Hermann, Dr. Marc Stricker
 Beirat: Dr. Gerhard Wobser

PRODUCT DATA SHEET

Standing: 2023-02-15

LAUDA Integral IN 750 XT Process thermostat
 400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
 Part Number: L002889

Features

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



Working temperature min.
-45 °C



Working temperature max.
220 °C

Technical Features (according to DIN 12876)

Working temperature range	-45 ... 220 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.05 ± K
Heater power max.	8 kW
Power consumption max.	11 kW
Current max.	16 A
Pump Pressure max.	3,1 bar
Pump flow rate max. (pressure)	65 L/min
In / Outlet connection thread (outside)	M30 x 1,5
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
Weight	176 kg
Noise level	68 dB(A)
Refrigerant stage 1	R-449A (GWP 1397); 1.800 kg; 2.5 t CO2-eq
Power supply	400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz
Power plug	Power cord with plug (NEMA L16-20P twist lock; 20 A)
Certification	NRTL according to UL 1995:2018, CSA C22.2 no. 236-15 Ed.5th

Reserve technical changes

LAUDA DR. R. WOBSEY GMBH & CO. KG
 Laudaplatz 1 • 97922 Lauda-Königshofen • DE

T + 49 (0) 9343 503-0 • F + 49 (0) 9343 503-222
 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. Ralf Hermann, Dr. Marc Stricker
 Beirat: Dr. Gerhard Wobser

PRODUCT DATA SHEET

Standing: 2023-02-15

LAUDA Integral IN 750 XT Process thermostat

400 V; 3/PE; 50 Hz & 460 V; 3/PE; 60 Hz

Part Number: L002889

Temperature	Pump stage	Heat transfer liquid	Cooling Capacity 50 Hz	Cooling Capacity 60 Hz
200 °C	8	Thermal oil	7 kW	7 kW
100 °C	8	Thermal oil	7 kW	7 kW
20 °C	8	Ethanol	7 kW	7 kW
10 °C	8	Ethanol	7 kW	7 kW
0 °C	8	Ethanol	5.4 kW	5.4 kW
-10 °C	8	Ethanol	3.6 kW	3.6 kW
-20 °C	4	Ethanol	2.6 kW	2.6 kW
-30 °C	4	Ethanol	1.6 kW	1.6 kW
-40 °C	4	Ethanol	0.8 kW	0.8 kW
-45 °C	2	Ethanol	0.5 kW	0.5 kW

Reserve technical changes

LAUDA DR. R. WOBSEY GMBH & CO. KG
Laudaplatz 1 • 97922 Lauda-Königshofen • DE

T + 49 (0) 9343 503-0 • F + 49 (0) 9343 503-222
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. Ralf Hermann, Dr. Marc Stricker
Beirat: Dr. Gerhard Wobser