

PRODUCT DATA SHEET

Integral IN 1590 XTW

The new generation of the successful Integral XT process thermostats for professional temperature control in the temperature range from -90 to 320 °C: The powerful Integral XT process thermostats use the flow principle with cold oil superimposition. It allows users to use a wide temperature range with one temperature control medium. The electronically controlled, magnetically coupled eight-stage LAUDA Variopump allows the optimum thermal connection of the flow rate both for pressure-sensitive consumers and for applications with high hydraulic resistance. The modular interface concept ensures maximum networking of the user processes.



Working temperature min.
-90 °C



Working temperature max.
220 °C

Technical Attributes

Technical Attributes	Integral IN 1590 XTW
Working temperature min.	-90 °C
Working temperature max.	220 °C
Ambient temperature min.	5 °C
Ambient temperature max.	40 °C
Temperature stability	0.05 ±K
Application	external
Filling volume min.	8.0 L
Filling volume max.	28.6 L
Heater power	12.0 kW
Cooling output at 200°C measured with thermal oil	18.50 kW
Cooling output at 100°C measured with thermal oil	18.50 kW
Cooling output at 20°C measured with ethanol	18.50 kW
Cooling output at 10°C measured with ethanol	15.00 kW
Cooling output at 0°C measured with ethanol	11.50 kW
Cooling output at -10°C measured with ethanol	8.70 kW

LAUDA DR. R. WOBSEY GMBH & CO. KG
Pfarrstraße 41/43 · 97922 Lauda-Königshofen
Postfach 1251 · 97912 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. Marc Stricker
Beirat: Dr. Gerhard Wobser

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Cooling output at -20°C measured with ethanol	8.50 kW
Cooling output at -30°C measured with ethanol	8.50 kW
Cooling output at -40°C measured with ethanol	7.50 kW
Cooling output at -50°C measured with ethanol	6.00 kW
Cooling output at -60°C measured with ethanol	4.00 kW
Cooling output at -70°C measured with ethanol	2.20 kW
Cooling output at -80°C measured with ethanol	0.90 kW
Cooling output at -90°C measured with ethanol	0.35 kW
Power consumption	25.0 kW
Interface(s)	Ethernet, USB
Noise level	63 dB(A)
Pump connection thread	M38 x 1.5
Pump pressure max.	3.1 bar
Pump flow max. (pressure)	65 L/min
Dimensions (WxDxH) in mm	760x650x1605

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