

## PRODUCT DATA SHEET

### Integral IN 280 XT

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.  
-80 °C



Working temperature max.  
220 °C

#### Technical Attributes

Technical Attributes	Integral IN 280 XT
Working temperature min.	-80 °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.	4.8 L
Filling volume max.	17.2 L
Heater power	4.0 kW
Cooling output at 200°C measured with thermal oil	1.60 kW
Cooling output at 100°C measured with thermal oil	1.60 kW
Cooling output at 20°C measured with ethanol	1.60 kW
Cooling output at 10°C measured with ethanol	1.55 kW
Cooling output at 0°C measured with ethanol	1.50 kW
Cooling output at -10°C measured with ethanol	1.50 kW

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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	1.70 kW
Cooling output at -30°C measured with ethanol	1.70 kW
Cooling output at -40°C measured with ethanol	1.65 kW
Cooling output at -50°C measured with ethanol	1.40 kW
Cooling output at -60°C measured with ethanol	0.85 kW
Cooling output at -70°C measured with ethanol	0.35 kW
Cooling output at -80°C measured with ethanol	0.15 kW
Power consumption	9.0 kW
Interface(s)	Ethernet, USB
Noise level	62 dB(A)
Pump connection thread	M30 x 1,5
Pump pressure max.	3.1 bar
Pump flow max. (pressure)	65 L/min
Dimensions (WxDxH) in mm	560x550x1325

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