

PRODUCT DATA SHEET

Standing: 2021-07-20

LAUDA Kryoheater Selecta KHS 3560 W

Process thermostat 400 V; 3/PE; 50 Hz

Part Number: L001981

Features

- Process thermostat with integrated cooling system for dynamic temperature control within external circuits
- 7" TFT Color Touch Screen with multi-level display functions
- Visual display of active faults, status display of all system components, heating and cooling transfer circuit, graphic display of the flow and return temperature, setpoint temperature and pump pressure.
- User management, temperature input limitation for the safe use with different LAUDA liquids, pump pressure control
- PLC control
- Fully electronic continuous controller with PID action for internal & external control
- Safety components of the heat transfer system: flow switch, safety temperature limiter, minimum level, safety valve
- Safety components of the refrigeration system: oil pressure switch, high pressure switch, high pressure safety limiter, low pressure switch
- Safe use in production environment by IP54 protection and robust steel frame construction
- Powerful, magnetic-coupled pump (high flow volume even with pressure losses), speed controlled or with outlet pressure control
- USB port and lemo plug for external temperature sensor as standard
- Prepared for pressure blanketing with nitrogen
- Internal Temperature probe, Pt100 (3 wire, Class A), can be calibrated at any time (screwed into a welded sleeve)
- Non-flow-through expansion vessel made of stainless steel with electronic liquid level indication and monitoring
- Single stage refrigeration system and two-stage compressor
- Condenser cooling Water
- Utilises traditional refrigerants (HFCs) in accordance with European legislation to control F-gases (EU) 517/2014



Reserve technical changes

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Options included

- With interface analogue (0...10 V or 4...20 mA)



Working temperature min.
-60 °C



Working temperature max.
200 °C

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Technical Features (according to DIN 12876)

Working temperature range	-60 ... 200 °C
Ambient temperature range	5 ... 40 °C
Temperature stability	0.5 ± K
Heater power max.	18 kW
Power consumption max.	29.5 kW
Power consumption	45.2 A
Pump Pressure max.	5.5 bar
Pump flow rate pressure max.	85 L/min
In / Outlet connection thread (outside)	DN 25
Filling volume min.	15 L
Filling volume max.	55 L
Water cooling connection thread (outside)	1 "
Cooling water flow rate	66 L/min
Recommended cooling water temperature	15 °C
Pressure difference cooling water min.	2.5 bar
Maximal pressure cooling water	10 bar
Overall dimensions (WxDxH)	920 x 1200 x 1700 mm
Refrigerant stage 1	R-407F (GWP 1825); 7.000 kg; 12.8 t CO ₂ -eq
Power supply	400 V; 3/PE; 50 Hz
Power plug	Power cord with plug (IEC 60309, 5-pol, CEE, red, 63 A)

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Temperature	Heat transfer liquid	Cooling Capacity 50 Hz
200 °C	Thermal oil	35 kW
20 °C	Thermal oil	35 kW
10 °C	Thermal oil	32 kW
0 °C	Thermal oil	30 kW
-10 °C	Thermal oil	29 kW
-20 °C	Thermal oil	18 kW
-30 °C	Thermal oil	14 kW
-40 °C	Thermal oil	10 kW
-50 °C	Thermal oil	6 kW
-60 °C	Thermal oil	2.5 kW

Reserve technical changes