

Laboratory Stirring Oil & Water Bath; Capacity: 0.8L to 2.5L



The following data describe the MSZNCLGS1130SWISS and MSZNCLGS1190SWISS stirring oil bath systems. These dual-function instruments serve as both oil baths and water baths, with integrated magnetic stirring. All values are measured under the manufacturer's standard test conditions.

Technical Specifications

Model identification and capacities

- Model numbers: MSZNCLGS1130SWISS and MSZNCLGS1190SWISS
- Top pot volume: 0.8 Liters (MSZNCLGS1130SWISS) and 2.5 Liters (MSZNCLGS1190SWISS)
- Internal bath volume: 0.5 Liters (MSZNCLGS1130SWISS) and 2.0 Liters (MSZNCLGS1190SWISS)

Temperature performance

- Temperature control mechanism: Advanced PID auto-control microprocessor
- Operating temperature range: Ambient room temperature up to 400°C
- Maximum top pot temperature: 350°C
- Temperature control accuracy: $\pm 1^{\circ}\text{C}$
- Thermal uniformity: $\pm 2^{\circ}\text{C}$ across the entire working area
- Thermocouple sensor: PT100 with both inner and outer probes

Stirring performance

- Stirring speed range: 100 to 1800 RPM
- Stirring speed accuracy: ± 1 RPM

Construction and materials

- Outer chassis: High-quality, durable Stainless Steel 304
- Inner tank: Premium aluminum coated with sprayed Teflon for ultimate corrosion resistance
- Display: High-visibility digital display for precise, real-time monitoring

Electrical specifications

- Heating power: 400 W (MSZNCLGS1130SWISS) and 500 W (MSZNCLGS1190SWISS)
- Voltage: Compatible with 160-240V or 110-130V standard power supplies

Included accessories

- Outer PT100 thermocouple
- PTFE-coated magnetic stir bar
- Removable holder
- Clamp with screw

Key benefits for chemistry and biology laboratories

The specifications above translate into measurable improvements for thermal processing and mixing workflows. Each point below connects a feature to a practical outcome.

Integrated heating and stirring eliminates separate equipment – The system combines a hot plate, water bath, oil bath, and magnetic stirrer into a single compact instrument.