

DESK-TOP SINGLE-LAYER GLASS REACTOR



Single-layer glass reactor bath heats materials within the reactor and enhances evaporation efficiency under vacuum conditions (requires connection to a vacuum device).

APPLICATIONS

The Torontech Single-layer Glass Reactor is a foundational tool for straightforward thermal processing in a laboratory setting. Its primary application is the direct heating of solutions, often under vacuum, to perform essential tasks such as solvent evaporation, sample concentration, and simple distillation. This makes it an indispensable workhorse for a wide range of basic chemical and material processing tasks where external temperature control via a jacket is not required.

This fundamental thermal processing is essential for efficiency in:

- **Academia & Education:** As a core piece of equipment for teaching labs, perfectly suited for demonstrating fundamental principles of distillation, evaporation, and solvent removal in a clear, observable manner.
- **Herbal Extraction & Food Science:** For the production of botanical extracts and food concentrates by efficiently boiling off solvents (e.g., ethanol) from tinctures or concentrating flavor and aroma compounds.
- **Chemical R&D & Synthesis:** Used for basic, direct-heat chemical reactions and, more commonly, for the post-reaction workup phase to concentrate a product solution by removing the reaction solvent prior to isolation.
- **Quality Control & Sample Preparation:** In analytical laboratories for the preparation of samples, such as concentrating a dilute solution to bring the analyte within the detection range of an instrument or for solvent exchange procedures.

FEATURES

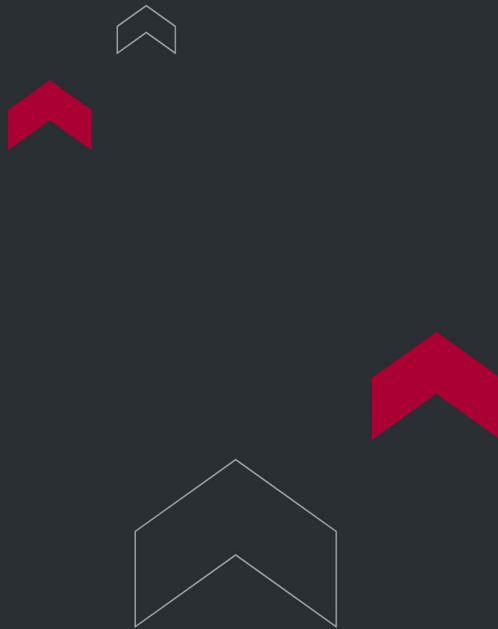
- Materials in contact with substances are crafted from high borosilicate glass and PTFE, ensuring excellent chemical resistance.

- Equipped with a stainless steel bath and a vacuum pressure gauge.
- Features a copper brushless motor with high torque, seamless speed control, and low noise.
- PTFE and fluororubber dual sealing system ensures a reliable vacuum environment.
- Designed with ceramic bearings and mechanical seals for exceptional heat resistance, durability, and effective sealing.

TECHNICAL SPECIFICATIONS

Model	SR-1L	SR-2L	SR-3L	SR-5L
Glass vessel volume	1L	2L	3L	5L
Voltage	220V/50Hz (110V is also available)			
Stirring motor power	40W		90W	
Heating power	1.5kW			
Stirring speed	0~800rpm			
Temperature range of glass vessel	-80℃~+250℃			
Bath temperature control range	RT~180℃			
Temperature measurement accuracy	+/-1℃			
Vacuum degree	0.098MPa			
Glass vessel diameter	Φ131mm	Φ166mm	Φ195mm	Φ230mm
Dropping funnel	250ml		500ml	
Dimensions	(400~700)W*330D*900H mm	(400~700)W*330D*930H mm	(430~1030)W*330D*1100H mm	(430~1030)W*330D*1150H mm

Model	SR-1L	SR-2L	SR-3L	SR-5L
Weight	18kg	18kg	23kg	25kg
Note: Explosion-proof models can be customized.				



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