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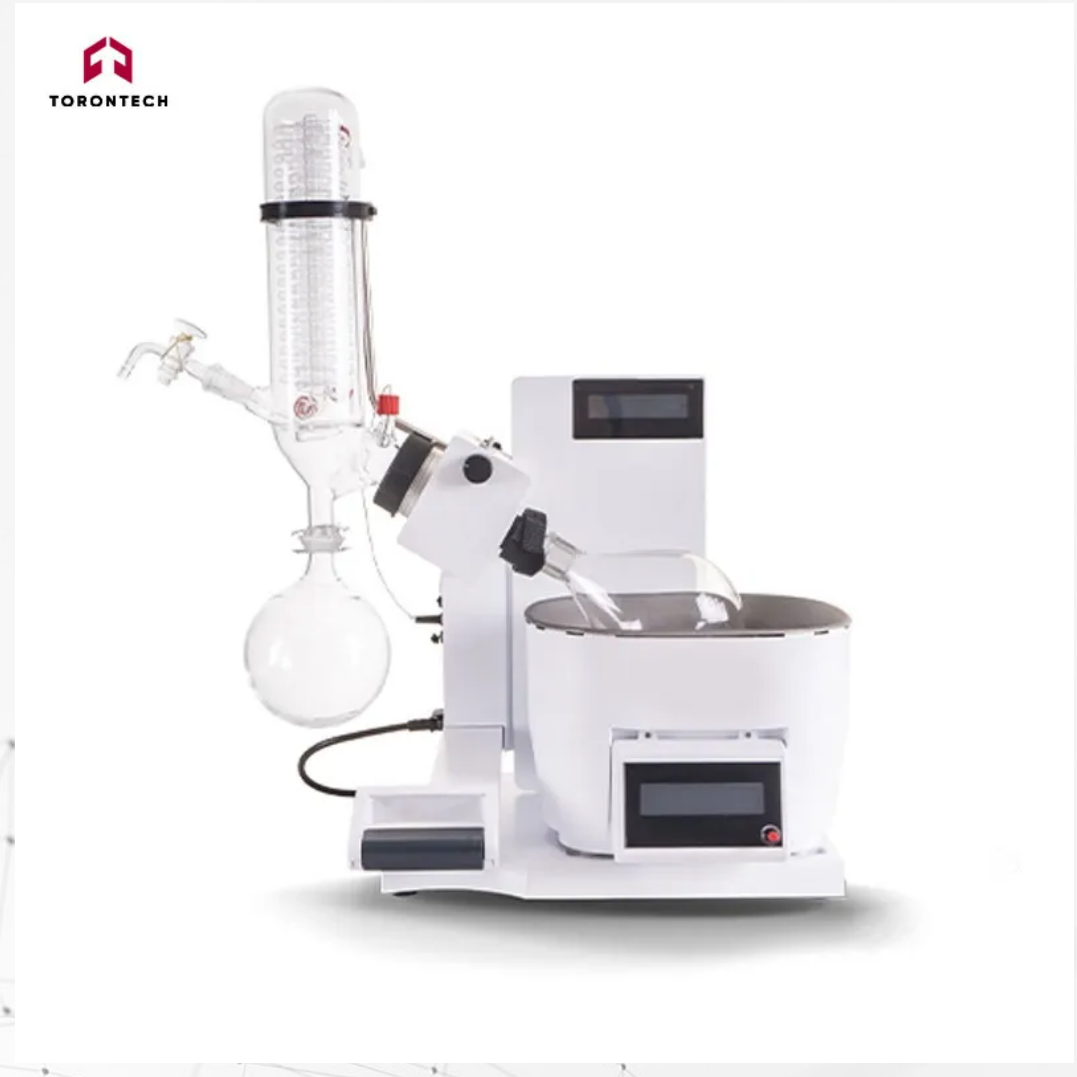

BENCH-TOP ROTARY EVAPORATOR AVR-001

Bench-top Rotary Evaporator is a high-precision device designed for quiet operation, straightforward use, consistent heating, and reliable sealing. It is ideal for applications such as concentration, crystallization, drying, separation, and solvent recovery in the pharmaceutical, chemical, and biopharmaceutical industries.

APPLICATIONS

The Torontech Bench-top Rotary Evaporator is an essential instrument for the gentle and efficient removal of volatile solvents from heat-sensitive samples. Its primary application is to concentrate solutions under vacuum, a process fundamental to modern laboratory work that requires the isolation of a target compound from its solvent without causing thermal degradation. This makes it a cornerstone for purification, concentration, and solvent recycling across numerous scientific fields.

This critical evaporation and concentration capability is fundamental to daily operations in:

- **Pharmaceutical & Chemical Synthesis:** For the purification and isolation of synthesized compounds and Active Pharmaceutical Ingredients (APIs) by efficiently stripping away reaction solvents without degrading the valuable target molecule.
- **Food, Flavor & Botanical Extraction:** To create high-quality concentrates, essential oils, and botanical extracts by gently removing solvents like ethanol, perfectly preserving the flavor, aroma, and potency of the final product.
- **Academia & Research:** As a foundational instrument in organic chemistry and research laboratories for the routine concentration and purification of reaction mixtures, making it an essential part of nearly every experimental workup.
- **Analytical Sample Preparation:** For preparing samples prior to analysis by concentrating dilute solutions to bring the analyte within the detection limits of instruments like HPLC or GC, or for performing critical solvent exchange procedures.

FEATURES

- **Sturdy Base:** Large-sized base ensures stable performance.
- **Split Water Bath:** Separate water bath design allows for easy handling, cleaning, and enhanced safety.
- **Temperature Monitoring Port:** Equipped with an expansion port for steam temperature detection.
- **Automatic Lift:** The unit rises automatically during power interruptions.
- **Dual Rotation Options:** Supports forward and reverse operation.
- **Integrated Power Supply:** Combined motor and water bath power system minimizes energy loss.
- **Overcurrent Protection:** The rotary drive system includes electronic overcurrent safeguards.
- **Efficient Condenser:** Features a 1460 cm² surface area for improved condensation.
- **Durable Stainless Steel Bath:** Maintenance-free bath with dual-layer protection, easy cleaning, and an overheating shut-off function. Displays both set and actual temperatures.
- **Upgradeable Design:** Multiple expansion interfaces for added convenience and functionality.

TECHNICAL SPECIFICATIONS

Model	AVR-001	
Voltage	220-240V, 50/60Hz (110V is also available)	
Lifting mode	Electric	
Lifting distance	180mm	
Control panel	LCD	
Forward and reverse	Switch	Double click (knob)
	Start / Stop	Click (knob)
	Automatic	Long press for 3s
Tilt angle adjustment range	0-30°	

Model	AVR-001
Evaporating flask volume	50-2000ml
Evaporation efficiency	Water: 20ml/min Ethanol: 30ml/min
Temperature display	Set temperature, actual temperature, steam temperature
Temperature range	20-99°C
Adjustment accuracy	+/-1°C
Heating power	1500W
Sealing parts	PTFE
Water bath volume	4L
Rotation speed	35-200rpm
Dimensions	650L*420W*900H mm (Glass parts and water bath included)
Weight	19-20kg

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