



TORONTECH

# LAB-SCALE ROTARY EVAPORATOR



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## APPLICATIONS

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The Torontech Lab-scale 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

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- **PTFE + Fluoro Rubber Double Seal:** Provides reliable system sealing.
- **Adjustable Inclination:** Easily accommodates rotating flasks of various sizes.
- **Precision Temperature Control:** Features PID control for accurate temperature regulation.
- **Digital Display:** Clearly shows rotation speed and temperature settings.

- **Separated Main Unit and Bath:** Allows for flexible setup and operation.
- **Dual Lifting Options:** Includes both manual and electric lift mechanisms.

## THEORY & METHOD

Lab-scale Rotary Evaporator

**R-1001VN**

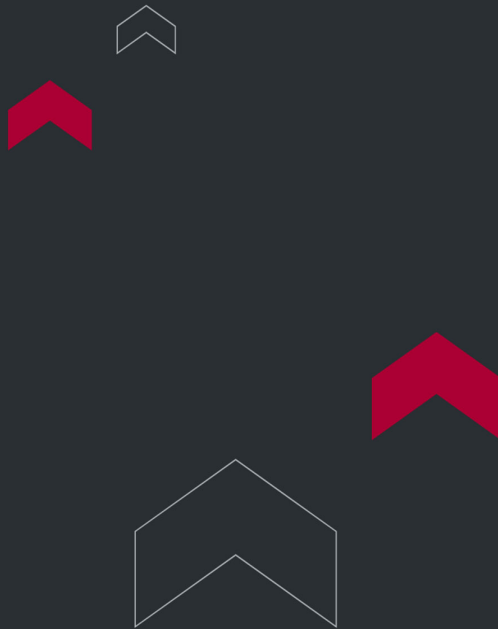
Lab-scale Rotary Evaporator

**R-3001**

## TECHNICAL SPECIFICATIONS

| Model                         | R-1001VN                     | R-3001            |
|-------------------------------|------------------------------|-------------------|
| Dimensions (with glass parts) | 640W×400D×670H mm            | 620W×400D×700H mm |
| Weight (with glass parts)     | 13kg                         | 13.5kg            |
| Voltage                       | 110V~,60Hz or 220-240V~,50Hz |                   |
| Overall power                 | 1080W                        | 1390W             |
| Protection grade              | IP20                         |                   |
| Overvoltage category          | I                            |                   |

| Model                         | R-1001VN                                    | R-3001    |
|-------------------------------|---------------------------------------------|-----------|
| Rotation speed                | 20~180rpm                                   | 10~280rpm |
| Temperature range of bath     | RT~95°C (water bath)<br>RT~180°C (oil bath) |           |
| Nominal adjustment accuracy   | ±1.5°C                                      |           |
| Heat resource                 | Deionized water                             |           |
| Vacuum leakage                | <=0.33kPa/min                               |           |
| Rotation control              | Electric                                    |           |
| Heating capacity              | 1050W                                       | 1300W     |
| Max. sea level                | 2000m                                       |           |
| Ambient temperature           | 5~35°C                                      |           |
| Environment relative humidity | <=70%                                       |           |
| Bath                          | 06Cr19Ni10, Φ254×130mm                      |           |
| Glass                         | 3.3 borosilicate glass                      |           |
| Sealing parts                 | PTFE                                        |           |
| Rotation speed setting        | 1rpm/step                                   |           |
| Bath temperature setting      | 0.1°C/step                                  |           |
| Temperature sensor            | PT-100, 2-wire                              |           |
| Bath cover                    | Optional                                    | Standard  |
| Rotation flask                | 500ml or 1000ml                             |           |
| Receiving flask               | 1000ml                                      |           |



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