

AUTOMATED SOLVENT RECOVERY SYSTEM



Automated Solvent Recovery System - ToronASR™

Automated Solvent Recovery System becomes important when vacuum evaporation runs include mixed solvents and high sample volume. ToronASR™ is a condensation receiving module designed to capture and manage condensed solvent during vacuum evaporation, with precise pressure control for stable operation. It supports multiple built-in pressure decrease modes, so your lab can match control style to the method and solvent mix.

ToronASR™ also supports up to 20-step gradient control, with an optional frequency-conversion pump for smoother pressure transitions. For mixed solvents with different boiling points, the automatic condensing waste discharge function helps remove low-boiling solvents first, reducing interference with later fractions. This improves workflow stability and helps keep evaporation moving without constant manual intervention.

APPLICATIONS

Automated Solvent Recovery System - ToronASR™ Applications

- Vacuum evaporation solvent management Capture and route condensed solvent during vacuum concentration so the system stays stable, especially in long multi-sample runs.
- Mixed-solvent methods (low + high boiling points) Automatic discharge of low-boiling condensate helps avoid disruption when the method transitions to higher-boiling fractions.
- Environmental, food, and industrial sample prep workflows Supports solvent recovery needs in labs running frequent vacuum evaporation steps where repeatable pressure control and clean condensate handling matter.



Standards

- ISO/IEC 17025 (quality system alignment) Many analytical labs operate under ISO/IEC 17025 and need consistent, documented operating conditions. ToronASR supports this environment through controlled pressure programming, repeatable modes, and stable operation that helps standardize solvent recovery during evaporation.

FEATURES

Automated Solvent Recovery System - ToronASR™ Key Features

- Multi-mode pressure control with manual, programmed, and frequency-conversion pressure-decrease options.
- 20-step gradient pressure programming to match complex solvent and method requirements.
- Optional frequency-conversion pump for smoother pressure transitions during gradient control.
- Smart condensate waste discharge that prioritizes low-boiling solvent removal to reduce interference in mixed-solvent evaporation.
- Built-in touchscreen control for clear setup and operation at the instrument.

TECHNICAL SPECIFICATIONS

Automated Solvent Recovery System - ToronASR™ Technical Specifications

Parameter	Specification
Vacuum pump rate	20 to 30 L/min

Parameter	Specification
Pressure control precision	1 to 10 mbar
Pressure setting precision	1 mbar
Gradient pressure control	Max. 20 steps
Noise control	Less than 60 dB
Software control	7-inch touch screen
Dimensions	210 mm × 340 mm × 660 mm



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