Rotary Evaporator

ROTARY EVAP

INTRODUCTION

Experience streamlined evaporation processes with our advanced Rotary Evaporator. Engineered for precision and efficiency, our rotary evaporator is a cornerstone tool in laboratories worldwide, ideal for a wide range of applications including chemical synthesis, concentration, purification, and solvent recovery.

Rotary Evaporator

APPLICATIONS

- Continuous distillation of volatile solvents
- Solvent Recovery
- Concentration of Extracts
- Drying of Powder/Granules
- Re-crystallization
- Synthesis

VARIANTS

Basic Model: MS Powder Coated Body & Structure Parts Non-Flame Proof Motors, Non-GMP.

Flame-Proof Model : MS Powder Coated Body & Structure Parts Flame Proof Motors & Electrical FLP Enclosure .

Complete GMP Model: SS Body & structure parts Flame Proof Motors & Electrical FLP Enclosure.

*Availability of Suitable Vacuum pumps (Oil Sealed / Diaphragm).

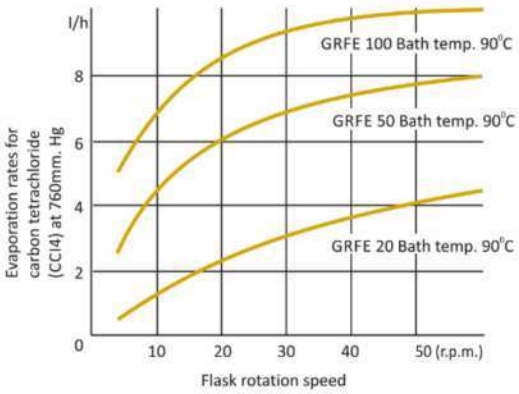
*Chillers with customized specification also available for customer's ease of choice as per applicable process

*A one-stop-shop "Solution Provider" for all technical aspects, especially for Rotary Evaporators along with strong after sales support for spares & services all over India.

PERFORMANCE DATA

The Performance of Rotary Evaporator depends on various parameter such as temperature differential bath and contents of flask, RPM, flask capacity and working pressure. An indicative comparison of boil-up of CCl4 rates for 20L, 50L, and 100L is giving in adjacent figure.

Depending on the solvent and operating conditions, our rotary evaporator can achieve evaporation rates ranging from 0.5 to 2 liters per hour, ensuring efficient solvent removal and concentration.



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TECHNICAL INFORMATION

Model	Rotating Flask Cap.(Ltrs.)	Rotating Speed (RPM)	Electric Motor Rating	Condenser Cooling Area M2	Receiving Flask Cap (Ltrs)	Power Supply (Volt/Hz)	Bath Rating KW
ARO-5	5	20-280	180 Watt	0.2	2	230V,50 Hz 1 Phase	2
ARO-20	20	20-135	0.25 HP	0.5	10	415V,50 Hz 3 Phase	4
ARO-50	50	20-135	0.50 HP	1.5	20	415V,50 Hz 3 Phase	6
ARO-100	100	20-90	1 HP	2.5	50	415V,50 Hz 3 Phase	12

KEY FEATURES:

Rotary Motion: The rotary evaporator utilizes a rotating flask to increase the surface area of the liquid, enhancing evaporation rates and ensuring thorough sample concentration.

Vacuum Control: By operating under vacuum, the boiling point of the solvent is reduced, enabling gentle and efficient evaporation at lower temperatures. This preserves the integrity of heat-sensitive samples and reduces the risk of thermal degradation.

Temperature Control: Our rotary evaporator is equipped with precise temperature control mechanisms, allowing users to optimize conditions for their specific application requirements. This ensures reproducibility and accuracy throughout the evaporation process.

Versatility: From small-scale operations to industrial applications, our rotary evaporator offers scalability and adaptability to meet diverse laboratory needs. Modular designs and customizable configurations ensure compatibility with various accessories and peripherals.

Safety Features: Built with safety in mind, our rotary evaporator incorporates features such as automatic shut-off mechanisms, overheat protection, providing peace of mind during operation.

User-Friendly Interface: Intuitive controls and user-friendly interfaces make our rotary evaporator easy to operate, minimizing training time and enhancing productivity in the laboratory.

APPLICATIONS:

Chemical Synthesis: Facilitate efficient solvent removal and concentration during chemical synthesis processes.

Pharmaceutical Research: Purify compounds, isolate active ingredients, and concentrate solutions for pharmaceutical applications.

Environmental Analysis: Analyze environmental samples by concentrating analytes for improved detection and analysis.

Food and Beverage Industry: Extract flavors, aromas, and active ingredients from natural products for food and beverage applications.

Academic Research: Support academic research endeavors in chemistry, biology, pharmacology, and more, with precise evaporation capabilities.