

LCD Microprocessor Controller

Rotary evaporators (also known as "Rotovaps") are mainly used for distillations/separation applications often used for medicinal chemistry, pharmaceutical, chromatography, and petrochemical fields. In summary the system works by increasing the rate of evaporation of the solvent by (1) reducing the pressure to lower the solvent boiling point (2) rotating the sample to increase the effective surface area (3) heating the solution (4) then the evaporated solvent then condenses in a cooled glass condenser.

The Main Components of a Rotary Evaporator are

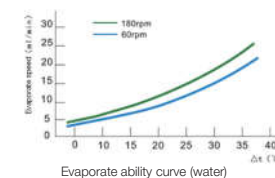
- Motor unit that rotates the evaporation flask or vial containing the user's sample.
- Heated fluid bath (generally water to heat the sample).
- Vapor duct that is the axis for sample rotation, and acts as a vacuum-tight conduit for the vapor being drawn off the sample.
- Vacuum system (an oil free vacuum pump/diaphragm pump) to substantially reduce the pressure within the evaporator system.
- Condenser (this normally connects to a recirculating chiller) with a coil passing coolant (water or ethanol).
- Condensate-collecting flask at the bottom of the condenser to catch the distilling solvent after it re-condenses.
- Mechanical or motorized mechanism to quickly lift the evaporation flask from the heating bath.

BEING Rotary Evaporator features

- Simple design for one handed operation manually or automatically.
- A unique PTFE sealing system provides exceptional thermostability, minimizes corrosion, and helps to ensure day in day out headache free operation.
- The vertical condenser with dual spiral glass tubing provides a condensing surface area of 0.15m².
- Evaporation speeds of 22ml/min.
- Our Bath offers a dual heating mode for water and oil with overheat protection.
- PID controller offers easy input of parameters and large LCD display for easy viewing.
- Vacuum regulator available.
- Available 110V and 220V power voltage.

Specifications

Model		RV-211M	RV-211A
Performance	Rotation speed	20-180rpm	
	Water bath temperature range	RT+5~100°C	
	Evaporating speed	22ml/min	
	Ultimate vacuum	8mbar	
Features	Speed setting	LCD display with knob	
	Lifting mode	Manual	automatic
	Motor function	N/A	DC brushless motor
Structure and composition	Main motor DC brushless	DC brushless motor	
	Condenser	Snake Condensate Condensate Area 0.15m ² , 1L Rotary Bottle, 1L Collecting Bottle, TS29 / 38 Bottle Clamp, Ball Face S35 / 20	
	Vacuum Seal	PTFE and Teflon Coating	
Heating bath	interior wather bath size	D230mm*H130mm	
	Water bath material	Stainless steel Corrosion resistant coating	
	Heating power	120VAC 50HZ 1000W	
Temperature range		5~35°C	
Electrical input		DC24V 2.5W	

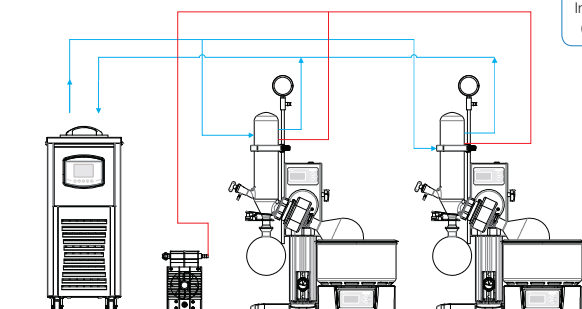


Water/Oil dual use water bath

Basic version equipped with built-in heater; Pro version equipped with external heater which is easy to clean after use.



High efficiency can be cycle used for two Rotary Evaporators



Standard :DIN-12880

Independent temperature safety equipment, 2 class (DIN12880) .

Cooling ———
Reduce pressure ———

Working condition
 - 20°C AC220V 50HZ; Ambient temp
 - 20°C AC220V 50HZ
 - 1L Rotary bottle
 - Water Bath temp: Set at 40°C
 - Coolant (alcohol/water): set the temperature at 10°C
 - Rotation speed: 120mp