

ROTARY EVAPORATOR

PILOT SCALE



FLAMEPROOF GMP MODEL

Rotary Film Evaporator

Ablaze's Rotary Film Evaporators are designed for industrial evaporation applications. Exclusive use of Borosilicate 3.3 glass and PTFE for all contact parts ensures high chemical resistance.

It is primarily used for distillation of heat-sensitive and volatile components, owing to its unique construction. It can operate under full vacuum, and is an essential equipment in chemical and pharmaceutical industries.

Capacity: 5, 10, 20, 30, 50 and 100 Litres

Models: GMP / non-GMP

Electricals: Flame-proof / non - Flame-proof



Multiple Receivers

ROVER's Salient Features

- Visibility of entire process
- Mounted on castor wheels for easy movement
- Uniform heating and reduced residence time
- Digital display of critical process parameters
- Fit and forget system maintenance free
- Control of important parameters through control panel



Heating Bath

Applications

- Distillation (continuous and discontinuous)
- Concentration
- Solvent recycling
- Reflux process reactions
- Component drying
- Component Purification
- Fine chemical synthesis
- Crystallization



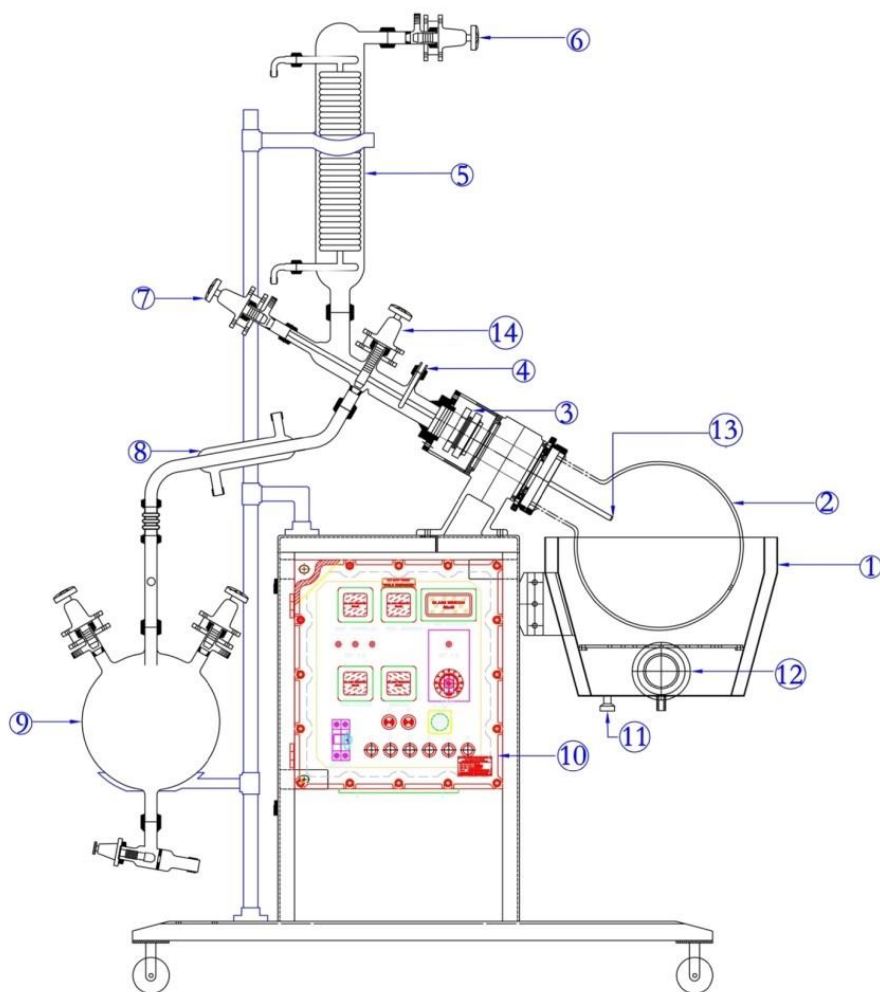
Digital Display



Control Panel

Applicable Industries

- Pharmaceutical
- Chemical
- Herb Extraction
- Petrochemical
- Cosmetics
- Fragrance and aromatics



Components

1. Water / Oil Bath
2. Rotary Flask
3. Mechanical Seal
4. Thermometer Pocket
5. Condenser
6. Vacuum Vent Valve
7. Liquid Feed Valve
8. Product Cooler
9. Receiver
10. Control Panel
11. Over Temperature Cut-Off Arrangement
12. Heater
13. Feed Tube
14. Distillate/Reflux Control Valve

Specifications

	ARE-05	ARE-10	ARE-20	ARE-30	ARE-50	ARE-100	ARE-200
Evaporation Flask Capacity	5 L	10 L	20 L	30 L	50 L	100 L	200 L
Heater	2 KW	4 KW	4 KW	4 KW	6 KW	12 KW	12 KW
Bath Lift	Electrically Controlled						
Rotation Speed	0-90 RPM	0-90 RPM	0-90 RPM	0-90 RPM	0-90 RPM	0-50 RPM	0-50 RPM
RPM Indicator	Digital Display						
RPM Control	Controlled through Panel (VFD)						
Temperature Range (Heating Bath)	Digital: 20-90° (water bath) / Digital: 20-180° (oil bath)						
Temperature Control	PID controlled from main heater						
Overheat Cut-Off Protection	Yes						
Ultimate Vacuum	1 Torr	1 Torr	1 Torr	1 Torr	1 Torr	3 Torr	5 Torr
Receiving Flask Capacity	5 L	10 L	10 L	20 L	20 L	30 L	50 L
Condenser Area	>0.2 m ²	>0.5 m ²	>0.5 m ²	>1.0 m ²	>1.5 m ²	>2.5 m ²	>4 m ²
Power Source	AC 230V/3Phase/ 50 Hz						

Chilling System



- Ablaze Chillers are specially designed to provide optimum efficiency of its Rotary Evaporators.
- Very powerful, designed keeping the high ambient temperatures of Tropical countries in mind
- Superior quality Stainless steel tank with copper cooling coils
- Mounted on castor wheels for easy movability
- Heavy Duty, hermetically sealed compressor used which is rated for continuous operation
- High cooling capacity allows for the use of a single chiller with multiple rotary evaporators
- Sustainable operation due to no water consumption



Specifications

Model	C00	C10
Temperature Range	Up to 0°C	Up to -10°C
Power Consumption (max.)	2850 W	2850 W
Display	Digital, Resolution +/- 0.1°C	Digital, Resolution +/- 0.1°C
Ambient Temperature	40°C	40°C
Refrigerant	R-404a	R-404a
Temperature Regulation Accuracy	+/- 1°C	+/- 1°C
Tank Volume	25 L (approx.)	25 L (approx.)
Hose Connection	13.5mm	13.5mm
Pump Pressure	2.5 Bar	2.5 Bar
Flow Rate	13 LPM	13 LPM
Type of Condenser	Air-cooled	Air-cooled
Power Supply	230V, 3 Phase, 50 Hz	230V, 3 Phase, 50 Hz

Suitable Vacuum Pump for *Ablaze* Rotary Evaporators also available on request.



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