



## Rotary Evaporator Pilot Scale



## PRODUCT DATASHEET

### Rotary Evaporator Pilot Scale

#### Features

- **RE-20 Rotary Evaporator 20L**
- **RE-50 Rotary Evaporator 50L**
- **RE-100 Rotary Evaporator 100L**

#### Buoyancy System

Aditya Scientific 20L / 50L / 100 L Rotary Evaporators are equipped with a **Buoyancy System**.

By using this device the rotary evaporator can be handled much easier than the conventional system which is available in the market. Buoyancy system emphasizes that the motor unit is fixed with the shaft, which makes it possible to rotate it at an angle of approx 45°. As a result the rotating flask will move up & down in both direction according to its content.

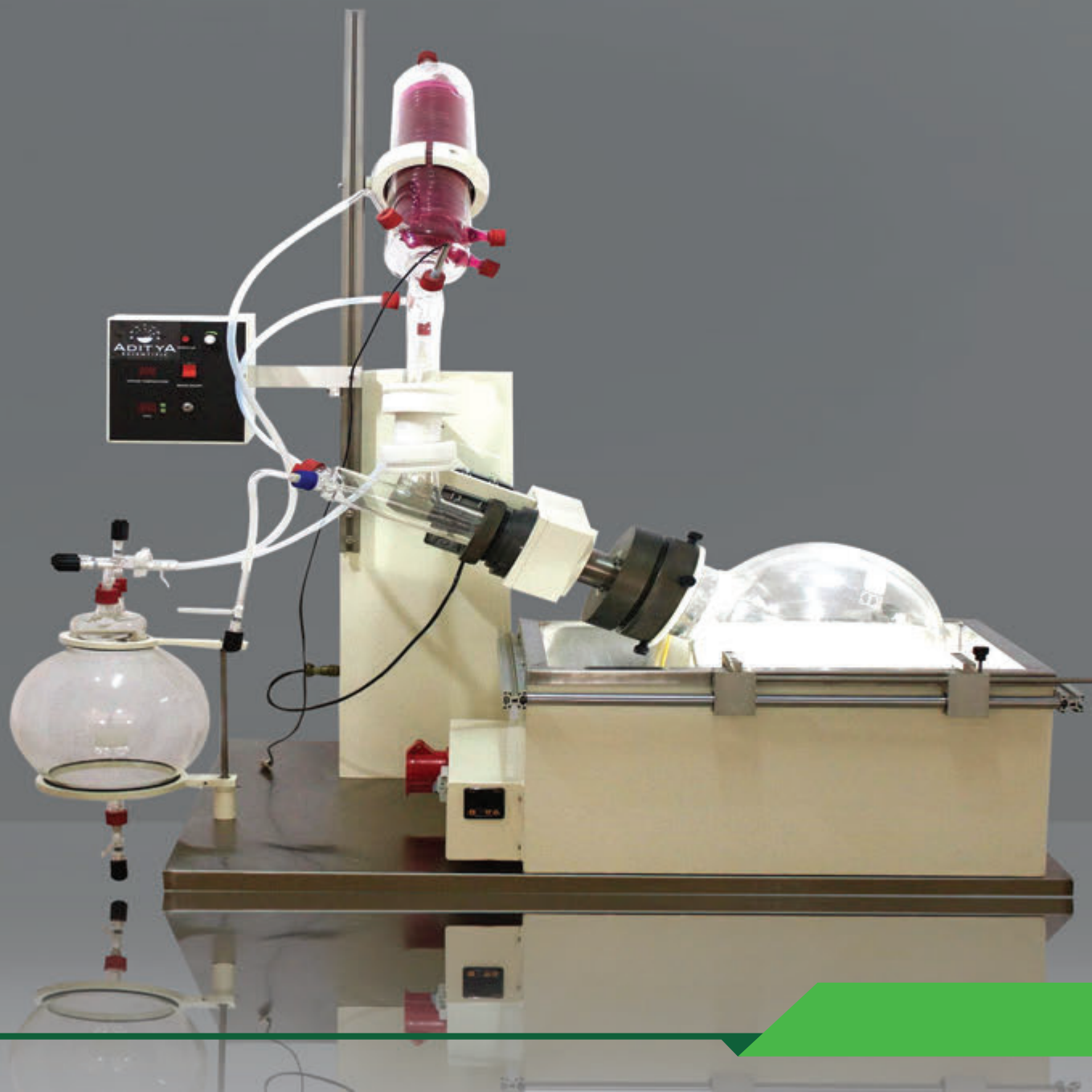
#### The Sealing System

For achieving a good distillation performance & careful treatment of the product, a good & long-term stable sealing system is very important. Therefore Aditya Rotary Evaporators are equipped with a mechanical sealing system that makes it possible to distil even high boiling solvent without any problem. The sealing system consists of chemical inert material like a special PTFE compound and borosilicate glass. Under empty conditions the sealing system can reach an ultimate vacuum value of better than 1 mbar.

#### The Glass parts

The glass parts of a rotary evaporator are made of high quality borosilicate glass which is processed very precisely. All the plane surfaces etc., are ground. This ensures that the system is absolutely leak proof.

If there are air bubbles inside the condenser coil, they can be removed by increasing flow rate. However, the absolute maximal water pressure for the condenser should be below 2 bar. All the other functional features of Aditya 20L / 50L / 100L Rotary Evaporators are at par with any international brand available in the market today.





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## RE-20 Rotary Evaporator 20L & RE-50 Rotary Evaporator 50L

TECHNICAL DATA	RE20	RE50
<b>Control Unit</b>		
Operating Voltage (control unit)	230 V 50/60 Hz	230 V 50/60 Hz
Vacuum valve (system)	Yes	Yes
Aerating valve (system)	Yes	Yes
Vacuum sensor	Yes	Yes
Automatic vacuum control mode	Yes (Digital Vacuum Controller)	Yes (Digital Vacuum Controller)
Vapour temperature	Yes	Yes
<b>Body</b>		
Dimensions (LxDxH)	1120x750x1250	1400x900x1250 [Approx. Size]
Reflux system	Yes	Yes
Condenser Cooling Area	1.2 sqm	1.2 sqm
Distillate flask	20L X 1 No.	50L X 1 No.
Receiver Flask	10L X 1 No.	20L X 1 No.
Flask neck	Large core diameter (standard 120 mm)	Large core diameter (standard 120 mm)
<b>Motor Unit</b>		
Rotating Speed	120 rpm	120 rpm
Electronic speed control	Yes	Yes
Electronic load control	Yes	Yes
Temperature safety switch	Yes	Yes
Slow acceleration mode	Yes	Yes
<b>Bath</b>		
Operating Voltage (bath)	440V / Three Phase	440V / Three Phase
Heating element	4 KW	8 KW
MOC of heating bath	Stainless steel	Stainless steel
Heating Bath	Insulated	Insulated
Heating Bath temp Range	20-100°C (option 20-180°C)	20-100°C (option 20-180°C)
Over temperature limiter (heating element)	Yes	Yes
Adjustable over temperature thermostat	Yes	Yes
Electronic temperature thermostat	Yes	Yes
<b>Sealing System</b>		
Sealing system vacuum stability	Ultimate vacuum (system empty) better than 1 mbar	Ultimate vacuum (system empty) better than 1 mbar
Life expectancy (sealing system)	Approx. 20,000 running hours.	Approx. 20,000 running hours.
Warranty (sealing system)	3 years	3 years

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## RE-100 Rotary Evaporator 100L

TECHNICAL DATA	RE100
<b>Control Unit</b>	
Operating Voltage (control unit)	230 V 50/60 Hz
Vacuum valve ( system)	Yes
Aerating valve (system)	Yes
Vacuum sensor	Yes
Automatic vacuum control mode	Yes
Vapour temperature	Yes
<b>Body</b>	
Dimensions (LxDxH)	1700 x 1000 x 1250 mm
Reflux system	Yes
Condenser Cooling Area	1.6 sqm
Distillate flask	100L X 1 No.
Receiver Flask	50L X 1 No.
Flask neck	Large core diameter (standard 120 mm)
<b>Motor Unit</b>	
Rotating Speed	60 rpm
Electronic speed control	Yes
Electronic load control	Yes
Temperature safety switch	Yes
Slow acceleration mode	Yes
<b>Bath</b>	
Operating Voltage (bath)	440V / Three Phase
Heating element	12 KW
MOC of heating bath	Stainless steel
Heating Bath	Insulated
Heating Bath temp Range	20-100°C (option 20-180°C)
Over temperature limiter (heating element)	Yes
Adjustable over temperature thermostat)	Yes
Electronic temperature thermostat	Yes
<b>Sealing System</b>	
Sealing system vacuum stability	Ultimate vacuum (system empty) better than 1 mbar
Life expectancy (sealing system)	Approx. 20,000 running hours.
Warranty (sealing system)	3 years