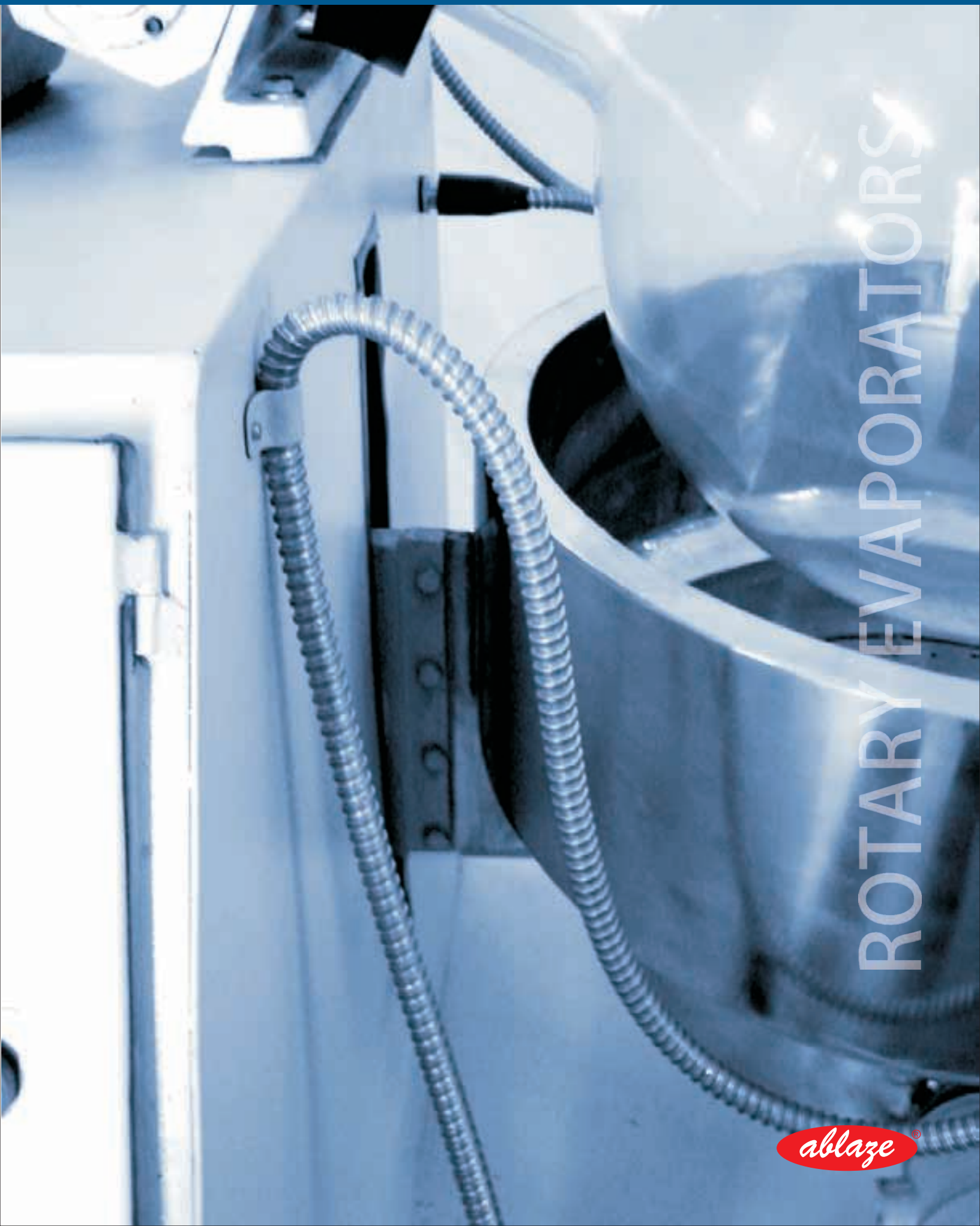


## 10. ROTARY EVAPORATORS



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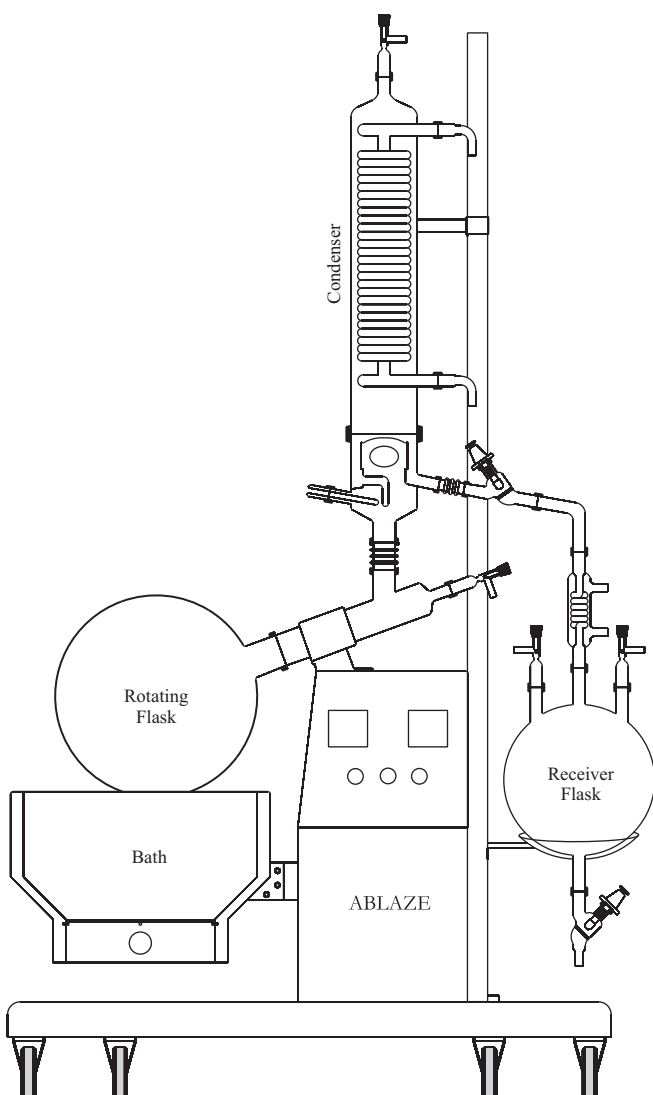
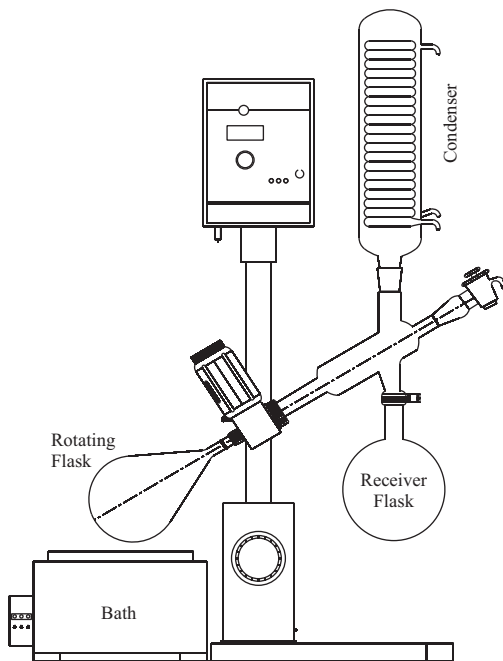
## INTRODUCTION :

The rotary evaporator principle is the most universal method, as it is an efficient, fast and gentle way to separate liquids. The rotating flask continuously covers a large surface area with a thin film, which is ideal for rapid heat transfer. Fortuitously, the film also ensures uniform heat distribution without local heating.

The facility to work the unit under full vacuum further facilities evaporation at as low temperature as possible. These features, combined, renders rotary film evaporator to be ideally suited for evaporation of heat sensitive material. It is equally successful for evaporation of suspension in crystallization processes drying of powder / granule etc.

## SALIENT FEATURES:

1. Table Top Model, sleek, compact with minimum footprint.
2. Very specific feature additionally incorporate & found useful in R&D areas such as continuous feed tube. High effective vertical condenser for maximizing recovery rates, provision for reflux distillation through reflux valve as an additional feature, total recovery of product condensate to recovery flask.
3. Designed specially for solvent separation-miscible & immiscible, crystallization.
4. Control panel located on the front of the unit thereby protecting the user from the hot water bath.
5. Heating bath features non-slip handles for safe up down movements of bath. At the time of power failure can also be operated manually.
6. Construction of vacuum seal is made of PTFE, which extends its life and reduce down time.
7. Indigenously developed vacuum seal mechanism in PTFE giving competitive edge against well- established Rotary flask of International or other Indian make.
8. IP-55 insulation protection against dust & fumes.



## TECHNICAL INFORMATION

MODEL	ARE1	ARE2	ARE3	ARE5	ARE10	ARE20	ARE50	ARE100
Rotating flask Capacity (Ltr.)	1Ltr.	2Ltr.	3Ltr.	5Ltr.	10Ltr.	20Ltr.	50Ltr.	100Ltr.
Rotating Speed (RPM)	20 -180	20-180	20-180	20-150	15-80	15-80	15-80	15-80
Electric Motor Rating (HP)	0.25	0.25	0.25	0.25	0.25	0.5	0.5	0.5
Condenser Cooling Surface Area (m2)	0.1	0.1	0.15	0.2	0.2	0.5	1.5	2.5
Receiver Flask Capacity (Ltr.)	0.5Ltr.	1Ltr.	1Ltr.	2Ltr.	5Ltr.	10Ltr.	20Ltr.	2x 20Ltr.
Power Supply	230 V	230 V	230 V	230 V	230 V	230 V	230 V	230 V
Volt / Hz	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz	50Hz
Bath Rating (kW)	2 kW	2 kW	2 kW	2 kW	4 kW	4 kW	6 kW	6 kW



