

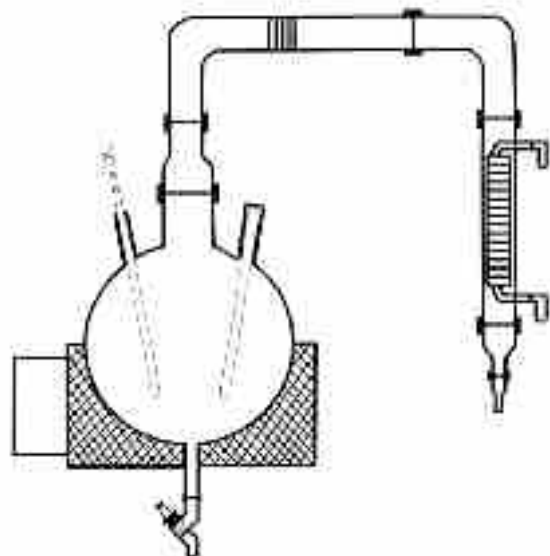


**ISO 9001 : 2015
Certified**



Certified

SIMPLE DISTILLATION UNITS

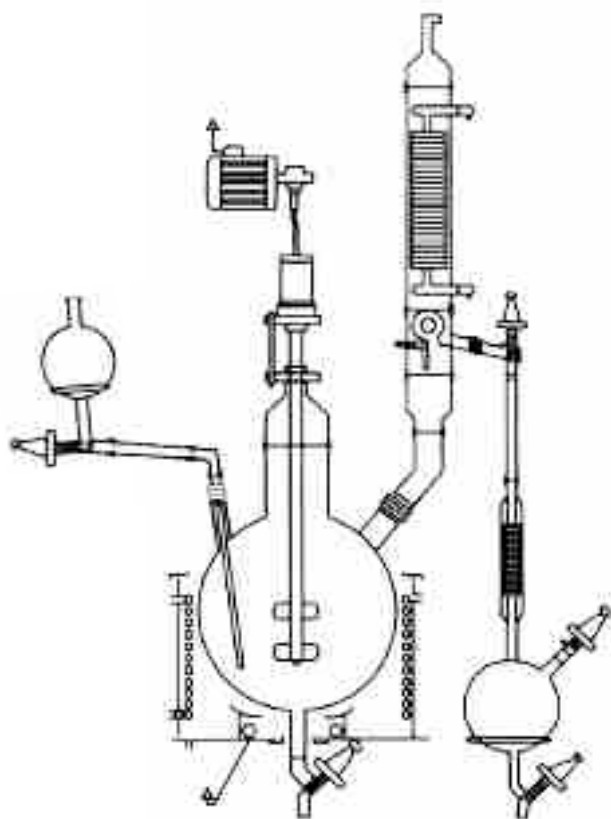


Unit Cat. Ref	Reactor Capacity	Bath KW	Vapour Line	Condenser M ²
BSDU20	20 L	4.5	80 DN	0.35
BSDU50	50 L	6.0	100 DN	0.50
BSDU100	100 L	9.0	150 DN	1.50
BSDU200	200 L	12.0	200 DN	1.50
BSDU300	300 L	16.0	225 DN	2.50

It consists of a vessel mounted in a heating bath and fitted with a condenser for condensing the vapours. A receiver with drain valve can be added for receiving the condensate.

The units are available in vessel sizes for 20, 50, 100, 200 & 300 L and is suitable for operation under atmospheric pressure and full vacuum.

REACTION UNIT



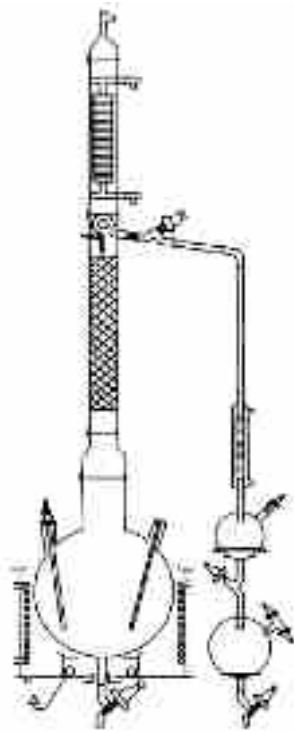
Unit Cat. Ref	Reactor Capacity	Bath KW	Addition Vessel	Vapour Line	Condenser HTAM ²	Cooler HTAM ²	Receiver Size
BRDU20	20 L	4.5	2 L	80 DN	0.35	0.10	5 L
BRDU50	50 L	6.0	5 L	100 DN	0.50	0.20	10 L
BRDU100	100 L	9.0	10 L	150 DN	1.50	0.35	20 L
BRDU200	200 L	12.0	20 L	150 DN	1.50	0.35	20 L
BRDU300	300 L	16.0	20 L	225 DN	2.50	0.50	20 L

This unit is used for carrying out reactions under stirred condition & with provision for simple reflux distillation.

The reaction vessel is mounted in heating bath and fitted with addition vessel, motor-driven stirrer and provision for condensation with refluxing. The product is sub-cooled & collected in a receiver.

The units are available in vessel sizes of 20, 50, 100 & 200 L and is suitable for operation under atmospheric pressure and full vacuum.

FRACTIONAL DISTILLATION UNIT



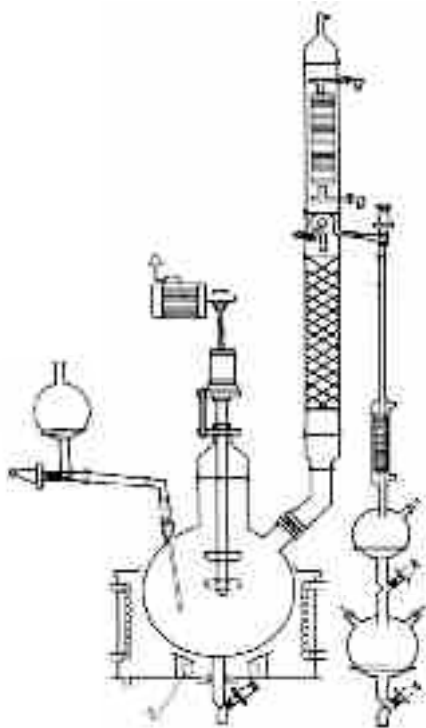
Unit Cat. Ref	Reactor Capacity	Bath KW	Addition Vessel	Vapour Line	Condenser HTAM ²	Cooler HTAM ²	Receiver Size
BFDU20	20L	4.5	2L	80 DN	0.35	0.10	5L
BFDU50	50L	6.0	5L	100 DN	0.50	0.20	10L
BFDU100	100L	9.0	10L	150 DN	1.50	0.35	20L
BFDU200	200L	12.0	20L	150 DN	1.50	0.35	20L
BFDU300	300L	16.0	20L	225 DN	2.50	0.50	20L

This is essentially a compact batch-type fractional distillation unit in which the reboiler consists of a vessel mounted in a heating bath and with a packed column above. The vapours from top is condensed and can be refluxed as per requirement.

The top product is sub-cooled and collected in receivers. The bottom product is finally drained from the reboiler through a drain valve.

The units are available in vessel sizes of 20, 50, 100 & 200 L and is suitable for operation under atmospheric pressure & full vacuum.

REACTION DISTILLATION UNIT



Unit Cat. Ref	Reactor Capacity	Bath KW	Addition Vessel	Vapour Line	Condenser HTAM ²	Cooler HTAM ²	Receiver Size
BFRU20	20L	4.5	2L	80 DN	0.35	0.10	2L, 5L
BFRU50	50L	6.0	5L	100 DN	0.50	0.20	5L, 10L
BFRU100	100L	9.0	10L	150 DN	1.50	0.35	10L, 20L
BFRU200	200L	12.0	20L	150 DN	1.50	0.35	10L, 20L
BFRU300	300L	16.0	20L	225 DN	2.50	0.50	20L, 20L

This is a versatile unit and can be used as Reaction Distillation Unit, Fractional Distillation Unit or a combination of both. All features of Reaction Distillation Unit & Fractional Distillation Unit are incorporated.

The units are available in vessel sizes of 20, 50, 100 & 200 L and is suitable for operation under atmospheric pressure and full vacuum.