

## Reaction Distillation Unit

The Unit has been designed to suit the customers requirement of combination of versatile reaction/distillation or combination for pilot plant work.

This has a flexibility of working at atmospheric pressure as well as under vacuum.

Typical unit has a reaction vessel fitted in a Metal Heating/Cooling bath having facility for heating and cooling both by means of Heating/Cooling Fluids as a media.

The Standard system is equipped with stirrer having mechanical seal, a packed column on the side neck of the vessel, reflux divider, coil type condenser and or receiver system having a product, cooler, vent, drain and vacuum valves, Options of or speed variator by mechanical variator or electronic variator can be provide.

Reactor Vessel Capacity	Packed Column in mm	Condenser HTA in M <sup>2</sup>	Product Cooler HTA in M <sup>2</sup>	Receiver Capacity	Addition Vessel	Catalogue Reference
10 Ltr.	50 x 1000	0.20	0.10	2 Ltr.x 2 nos.	2 Ltr.	SGRDU 10
20 Ltr.	80 x 1000	0.35	0.20	5 Ltr.x 2 nos.	5 Ltr.	SGRDU 20
50 Ltr.	100 x 1000	0.50	0.20	10 Ltr.x 2 nos.	10 Ltr.	SGRDU 50
100 Ltr.	150 x 1000	1.50	0.35	20 Ltr.x 2 nos.	20 Ltr.	SGRDU 100
200 Ltr.	150 x 1000	1.50	0.35	20 Ltr.x 2 nos.	20 Ltr.	SGRDU 200

### Optional Items :

- Heating mantle instead of jacketed heating / cooling bath.
- Simple Drain Valve instead of flush bottom valve.
- MS PTFE lined stirrer instead of glass stirrer.
- Variable frequency drive for variable speed.

