FADAK LAB EQUIPMENTS

CRE-004 SEMI BATCH REACTOR

DESCRIPTION : Semi Batch reactor is simple, needs little supporting equipment and therefore ideal for small scale experimental studies on reaction kinetics. Industrially it is used when relatively small amounts of material are to be treated.

RANGE OF EXPERIMENTS

1. Study of Semi Batch Reactor.
2. To calculate the reaction rate constant k for given reaction in Semi batch reactor

EXPERIMENTAL SETUP :

Reactor	:	Material Stainless steel (SS) ,
Feed Circulation	:	By Compressed Air
Pressure Regulator	:	0-2 kgf / cm^2
Pressure Gauge	:	Bourdon type 0 – 2 kgf / cm2
Feed Tank	:	1 No. of stainless steel feed tank
Flow Measurement	:	1 No. Pre calibrated Rota meter
Stirrer	:	1 No.SS impeller and shaft coupled to FHP Motor
Piping	:	SS , PVC
Setup Mounting	:	On sturdy MS stand with Powder coated

CHEMICALS REQUIRED : NaOH, Ethyl Acetate ,HCL , Phenolphthalein indicator , Distilled water

SERVICE REQUIRED : Air Supply : @ 4 Kg /cm^2
Water Supply : @ 2 lpm
Power Supply : 230 V, 50 Hz, A.C.

SPACE REQUIRED : 1 m. (L) x 1.0 m (W) X 1 m (H).

WEIGHT : @ 50 Kg

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