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Product Name :

Fractional Distillation Assembly

Product Code :

SLE/CH/141



Description :

Fractional Distillation Assembly (Product Code: SLE/CH/141) is a set of borosilicate glass components, all with 19/26 joints, for separating a mixture of liquids according to their boiling points. Its Vigreux column gives rising vapour extra surface on which to condense and re-evaporate several times before it reaches the condenser, which is what makes fractional distillation separate close-boiling liquids more cleanly than a simple distillation. Chemistry teachers, college demonstrators and laboratory technicians use it for practical classes and demonstrations, and it suits institutions looking for laboratory distillation apparatus in India that arrives as one matched set. It is made by **Jain Scientific Equipments Pvt Ltd (ScienceLab)**, Ambala.

Specifications

Parameter	Detail
Material	Borosilicate glass
Joint size	19/26
Boiling flask	Round-bottom boiling flask, 250 ml
Fractionating column	Vigreux column
Condenser	Liebig condenser
Receiver adapter	Vacuum receiver adapter
Receiving flask	Erlenmeyer flask, 250 ml
Joint clips	4 x joint clip, 19/26

Typical Use

To set up, clamp the 250 ml round-bottom flask over a suitable heat source, fit the Vigreux column vertically in its neck, and attach the Liebig condenser so that it slopes down towards the vacuum receiver adapter and the 250 ml Erlenmeyer flask. Cooling water enters the condenser at the lower connection and leaves at the upper one, keeping the jacket full. The four 19/26 joint clips hold the connections together while the apparatus is hot. A classic class experiment is separating an ethanol and water mixture, collecting the first fraction while the more volatile liquid distils over and changing the receiver as the distillate changes.

For smooth boiling, add anti-bumping granules and fill the flask no more than about half full. Heat gradually so the vapour climbs the column slowly; heating too fast floods the column and undoes the separation. Leave the side connection on the receiver adapter open to the air for distillation at normal pressure. As a piece of borosilicate laboratory glassware in India’s school and college labs, the set should be allowed to cool before dismantling, and the joints should be cleaned promptly so they do not seize.

Manufacturer

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