

Product Name : Solid/Liquid Extraction Unit Complete	Product Code : ASTRALAB-SUPPLYA140001
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Description :
Solid/Liquid Extraction Unit Complete Supplier in Africa and Lab Equipment South Africa, Africa Kenya, Uganda, Sudan, Algeria, Morocco, Angola, Ghana, Mozambique, Madagascar, Ivory Coast, Cameroon, Niger, Burkina Faso, Mali, Malawi, Nigeria, Ethiopia, Egypt, DR Congo, Tanzania, Togo, Sierra Leone, Libya, Congo, Central African Republic, Liberia, Mauritania, Eritrea, Gambia, Botswana, Namibia, Gabon, Lesotho, Guinea Bissau, Equatorial Guinea, Mauritius, Eswatini, Djibouti, Reunion, Comoros, Cape Verde, Western Sahara, Mayotte, Sao Tome, Seychelles, Zambia, Chad, Somalia, Senegal, Zimbabwe, Guinea, Rwanda, Benin, Burundi, Tunisia, South Sudan.
Technical Specification :
The setup consists of Bonnotto type extractor of slotted circular plates arranged one above the other in opposite radial opening. The solids are introduced at the top through a hopper spread over the top plate by a rack and pushed to slot to fall to the next plate below and so on to the bottom of the column. The solvent is introduced near the bottom of the column and it flow upward counter currently to the solids. A pump supplies the solvent and

flow rate is monitored by means of a Rotameter. At the bottom of column a screw conveyor arrangement is done to remove the extracted solids driven by means of an electric motor. Solvent feed tank is kept in a bath fitted with heater and digital temperature controller is used to maintain the constant temperature.

Experimentation/Learning Objectives:

To determine the efficiency of a continuous counter-current Solid-Liquid Extraction system.

Utilities Required Electricity Supply: Single Phase, 220 V AC, 50 Hz, 5-15 Amp combined socket with earth connection.

Earth voltage is less than 5 volts.

Water supply

Floor area required:

Solvent : 50 ltrs.

Solid : 30 kg.



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