

Suction Pump

Principle:

A suction pump works on the principle of creating a vacuum to remove air or gases from a system, lowering the pressure. This allows liquid or gas to be drawn into the system or through a filtration setup.

Types:

- Manual suction pump (hand-operated)
- Mechanical/rotary vacuum pump
- Diaphragm pump

Uses:

- Filtration using a Büchner funnel
- Evaporation under reduced pressure
- Aspiration of liquids in laboratories
- Supporting vacuum distillation or degassing

Advantages:

- Speeds up filtration and other lab processes
- Provides consistent vacuum
- Useful in multiple laboratory applications