

## Swenson Walker Crystallizer



**Product Categories:** [Engineering Equipment](#), [Mass Transfer Lab](#)

**Product Page:** <https://www.labappara.com/product/swenson-walker-crystallizer/>

### Product Description

#### Swenson Walker Crystallizer

The set-up is designed to demonstrate and stimulate the phenomena of crystallization. Swenson Walker crystallizer is a continuous type crystallizer. This operation involves both heat and mass transfer. Crystallization is the formation of solid particles within a homogeneous phase. Its wide use has a two-fold basis; a crystal formed from an impure solution is itself pure.

The setup consists of a top open jacketed round bottom trough. A ribbon mixer is provided in crystallizer trough, which rotates at low rpm for agitation of saturated solution. The saturated solution is prepared in a tank fitted with heater and a stirrer. This hot saturated solution is fed at one end of the crystallizer and flows slowly towards the other end while being cooled and is allowed to flow back in hot feed tank making the process continuous.

The crystals sediments at the bottom of the trough, and can be washed out at the end of process. Arrangement for Cooling water circulation and flow measurement in jacket is made by using storage type water tank, a pump and a rota-meter.

Necessary instrumentation is done for temp measurement.

#### **FEATURES:]**

Superb Painted structure

Simple to operate & maintain

Compact & stand alone set up