

DESCRIPTION

DEFINITION

The flotation cell was developed for the separation of ink from a pulp slurry. Ink-laden air bubbles collect as foam on the surface of the stock. This foam flows spirally inwards and is then drained through the central collecting pipe, eventually discharging through piping at the bottom of the cell. Likewise accepts exit at the bottom of the cell.

MODELS

There are presently six sizes of the Flotation Cell from Bird Escher Wyss Inc. Models: CF1C thru CF6C.

MAJOR COMPONENTS

CELL:

The primary purpose of the cell is to contain and direct the flow of stock. In addition, it supports the shower assembly, and the feed header assembly piping.

Located on the outside of the cell are the following connections and openings:

1. Inlet nozzles which allow the aerated stock to enter the cell.
2. Accept connections for allowing accepted stock to be discharged from the cell.
3. Foam connection for discharging of rejects from the cell.
4. Air connection for allowing the introduction of air to the cell for use with step diffuser assembly.
5. Transmitter flange connection for controlling the level of stock.
6. Sight window and scale for viewing operation and observing the height of the stock level.
7. Manways which permit access to interior of cell for servicing shower assembly and inspection of cell.