Russell Finex

Technologies for Dewatering Spent Grains from Fermentation

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Overview

- Introduction
- Solutions for dewatering
- Types of equipment
- Where we fit in the process
- Typical applications
Introduction

Fast and effective separation of solids from liquids

- Spent grain
- Botanicals
- Fruits
- Fiber
- Other organics

Over 80% of liquids extracted
Solutions for Dewatering

- Centrifugal – Uses centrifugal action to separate grain from liquid.
- Vibratory – Uses vibratory action for dewatering on smaller scale operations.
Types of equipment

- Liquid-Solid Separator
- Finex Separator
- Blow-Thru Sieve
- Compact Screener
Russell Solutions
Liquid-Solid Separator

- Continuously removes soft & fibrous solids from liquid
- Increases productivity
- Easy to clean and tool-free disassembly
- Self cleaning spray bar system to backflush the mesh.
Liquid Solid Separator in action
Vibratory Separators

- Great separation efficiency
- Lower noise levels
- Less maintenance
- Low initial cost
Where separation fits in the process

- Liquid/solid separation after the still for large applications
- Liquid/solid separation before the still for small applications
- Check screening prior to fermentation
Where separation fits in the process

Mash Tun → Distilling on Grain → Ferm. → Distillation → Spirit → Aging

Chiller

Liquids

Spent Distillate → Separating Spent Distillate → Grain

Sold for Feed → Disposal

Solids

Grain

Liquid
Blow-Thru Sieves

- Removes contamination to improve product quality
- Screening and conveying in one process
- Completely enclosed screening
- Fully mobile, allowing 1 unit to be used for multiple locations
- Simple installation and operation
- Low noise levels
Installations
Installations
Any Questions?