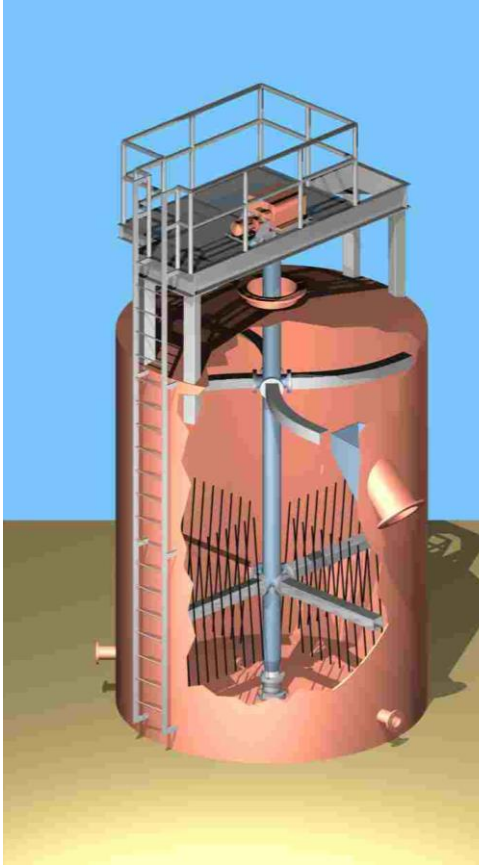


SOAP SEPARATOR



FEATURES

- Improves soap acid number
- Reduced shipping costs when the soap is processed off site
- Reduced soda and sulfur loss
- Can be installed in a new or existing tank
- Proven in operation for over 25 years
- Installations worldwide

BENEFITS

Soap skimmings collected from the kraft pulp mill evaporation and brown stock washing systems often contain significant quantities of black liquor. To avoid chemical loss in the pulp mill and excess chemical usage at the tall oil plant, the entrained black liquor must be separated from the soap. Some of the black liquor will drain out by gravity; however, facilitating the liquor drainage will improve the soap yield and soap quality. The Lundberg Soap Separator mechanically performs this task. For mills with tall oil acidulation plants, the liquor reduction provides significant acid savings and brine reduction.

CONTACT

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Bellevue, Washington 98005
425.283.5070
www.lundberg-us.com

LUNDBERG'S AREAS OF EXPERTISE

BY-PRODUCT RECOVERY

- | | | |
|--|--------------------------------------|----------------------------------|
| <input type="checkbox"/> Tall Oil Soap | <input type="checkbox"/> Acidulation | <input type="checkbox"/> Storage |
| <input type="checkbox"/> Turpentine | <input type="checkbox"/> Condensing | <input type="checkbox"/> Storage |

CHEMICAL HANDLING AND STORAGE

- | | | |
|---|----------------------------------|---------------------------------------|
| <input type="checkbox"/> Sulfur | | |
| <input type="checkbox"/> Caustic | | |
| <input type="checkbox"/> Acids | | |
| <input type="checkbox"/> Sulfur Dioxide | <input type="checkbox"/> Storage | <input type="checkbox"/> Vaporization |

CHEMICAL GENERATION

- Sulfur Dioxide
- NSSC Pulping Liquor
- Sulfite/Bisulfite Pulping Liquor

EVAPORATORS FOR PULPING LIQUOR

- | | |
|--|--|
| <input type="checkbox"/> Multiple-Effect | <input type="checkbox"/> Vapor Recompression |
| <input type="checkbox"/> Strong Liquor Concentrators | <input type="checkbox"/> Crystallizer |
| <input type="checkbox"/> Pre-Evaporation | <input type="checkbox"/> REX Technology |
| <input type="checkbox"/> Falling Film | |

FOAM CONTROL

- | | | |
|--|--|--|
| <input type="checkbox"/> Washer Filtrate | <input type="checkbox"/> Weak Liquor Storage | <input type="checkbox"/> Soap Skimming |
| <input type="checkbox"/> Foambreaker for Light Foam | | |
| <input type="checkbox"/> Soap Concentrator for Heavy Foam and Soap | | |

HEAT RECOVERY AND UTILIZATION

- | | | |
|---|-------------------------------------|---|
| <input type="checkbox"/> Blow Heat | <input type="checkbox"/> Condensers | <input type="checkbox"/> Systems |
| <input type="checkbox"/> Pre-Evaporation | | |
| <input type="checkbox"/> Digester Heaters and Circulation | | |
| <input type="checkbox"/> Direct Contact Gas Coolers | | |
| <input type="checkbox"/> TMP | <input type="checkbox"/> Hot Water | <input type="checkbox"/> Steam Generation |
| <input type="checkbox"/> Heavy Liquor Heaters | | |
| <input type="checkbox"/> Waste Heat Boilers | | |

LUNDBERG CUSTOM EQUIPMENT

- | | |
|---|---|
| <input type="checkbox"/> Pressure/Vacuum Relief Valves (PVRV) | |
| <input type="checkbox"/> Flame Arresters | |
| <input type="checkbox"/> Jacketed Valves | |
| <input type="checkbox"/> Lundberg Soap Separator/Soap Skimming Rake | |
| <input type="checkbox"/> Heat Exchangers | <input type="checkbox"/> Heavy Liquor Heaters |
| <input type="checkbox"/> SO ₂ Gas Fans | |

POLLUTION CONTROL

- | | | |
|---|--|--|
| <input type="checkbox"/> Black Liquor Oxidation | <input type="checkbox"/> Weak | <input type="checkbox"/> Strong |
| <input type="checkbox"/> Condensate Stripping | <input type="checkbox"/> Steam | <input type="checkbox"/> Air |
| | <input type="checkbox"/> TRS | <input type="checkbox"/> MeOH / BOD |
| <input type="checkbox"/> Noncondensable Gas | <input type="checkbox"/> Collection | <input type="checkbox"/> Incineration |
| | <input type="checkbox"/> Strong | <input type="checkbox"/> Dilute |
| <input type="checkbox"/> Direct Fired Oxidizer (DFO) | | <input type="checkbox"/> COD |
| <input type="checkbox"/> Plywood Industry | <input type="checkbox"/> Heat Exchangers | <input type="checkbox"/> Scrubbers |
| <input type="checkbox"/> Regenerative Thermal Oxidizer (RTO) | | <input type="checkbox"/> SOG |
| <input type="checkbox"/> Wet Electrostatic Precipitator (ESP) | | <input type="checkbox"/> Steam Tunnel Condensate Evaporator |
| | | <input type="checkbox"/> Regenerative Catalytic Oxidizer (RCO) |

SPECIAL SYSTEMS

- | | | |
|---|------------------------------|---|
| <input type="checkbox"/> White Liquor Oxidation | <input type="checkbox"/> Air | <input type="checkbox"/> Molecular Oxygen |
| <input type="checkbox"/> Sulfur Addition – Kraft Liquor | | |
| <input type="checkbox"/> Reausticizing – White Liquor | | |
| <input type="checkbox"/> Ash Treatment Systems – Saltcake | | |

TURNKEY

- Engineering
- Complete EPC