

TURPENTINE RECOVERY



FEATURES

- Vertical condensers for falling film operation
- Condensing occurs inside the tubes for continuous self-cleaning and positive NCG removal
- NCG leaving the system is properly conditioned to minimize turpentine loss
- Decanter design minimizes turpentine content in the underflow
- All gas and condensate exposed parts utilize stainless steel construction
- Flooded decanter design

BENEFITS

Environmental regulations make it important for all mills to control volatile organic emissions. One of the largest and easiest to control volatile organic components in a softwood kraft mill is turpentine. Removal of the turpentine from the condensate also removes it as a toxin in the effluent treatment system. In addition, turpentine can be a valuable by-product for many facilities.

Lundberg has been the leading supplier of turpentine recovery systems for over 25 years. More than 100 systems have been installed with the scope of supply ranging from process engineering and major equipment to complete EPC projects.

CONTACT

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LUNDBERG'S AREAS OF EXPERTISE

BY-PRODUCT RECOVERY

- Tall Oil Soap
- Turpentine
- Acidulation
- Condensing
- Storage
- Storage

CHEMICAL HANDLING AND STORAGE

- Sulfur
- Caustic
- Acids
- Sulfur Dioxide
- Storage
- Vaporization

CHEMICAL GENERATION

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

EVAPORATORS FOR PULPING LIQUOR

- Multiple-Effect
- Strong Liquor Concentrators
- Pre-Evaporation
- Falling Film
- Vapor Recompression
- Crystallizer
- REX Technology

FOAM CONTROL

- Washer Filtrate
- Foambreaker for Light Foam
- Soap Concentrator for Heavy Foam and Soap
- Weak Liquor Storage
- Soap Skimming

HEAT RECOVERY AND UTILIZATION

- Blow Heat
- Pre-Evaporation
- Digester Heaters and Circulation
- Direct Contact Gas Coolers
- TMP
- Heavy Liquor Heaters
- Waste Heat Boilers
- Condensers
- Hot Water
- Steam Generation
- Systems

LUNDBERG CUSTOM EQUIPMENT

- Pressure/Vacuum Relief Valves (PVRV)
- Flame Arresters
- Jacketed Valves
- Lundberg Soap Separator/Soap Skimming Rake
- Heat Exchangers
- SO₂ Gas Fans
- Heavy Liquor Heaters

POLLUTION CONTROL

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

SPECIAL SYSTEMS

- White Liquor Oxidation
- Sulfur Addition – Kraft Liquor
- Reausticizing – White Liquor
- Ash Treatment Systems – Saltcake
- Air
- Molecular Oxygen

TURNKEY

- Engineering
- Complete EPC