EVAPORATORS AND CONCENTRATORS



FEATURES

- Tubular and Plate designs available.
- Both Rising Film and Falling Film tubular technology available, depending on customer and process requirements.
- Flooded, forced circulation technology with enhanced flow characteristics.
- Positive non-condensible gas venting.

BENEFITS

Lundberg is a leading supplier of evaporation technology. Applications of our technology include full sets with integrated condensate strippers and high solids concentrators, reconfigurations of your existing evaporator, blow heat pre-evaporation systems, and flash evaporators. The technology utilized is matched to the specific requirements of each application.

We offer a full range of tubular evaporation technologies, including falling film, long tube vertical, and enhanced flooded forced circulation designs. Our experience in evaporation ranges from ethanol production to classical softwood or hardwood kraft black liquor systems found in paper mills, to very difficult to evaporate liquors, such as wheat straw and bagasse.

CONTACT

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LUNDBERG'S AREAS OF EXPERTISE

☐ BY-PRO	DUCT RECOVERY				
	☐ Tall Oil Soap	Acidulation		Storage	
	☐ Turpentine	Condensing		Storage	
☐ CHEMICAL HANDLING AND STORAGE					
	☐ Sulfur				
	☐ Caustic				
	Acids		_		
	☐ Sulfur Dioxide	☐ Storage		Vaporization	
☐ CHEMIC	AL GENERATION				
	☐ Sulfur Dioxide				
	■ NSSC Pulping Liquor				
	☐ Sulfite/Bisulfite Pulping Liqu	uor			
☐ EVAPORATORS FOR PULPING LIQUOR					
	■ Multiple-Effect			Vapor Recompression	
	Strong Liquor Concentrator	s		Crystallizer	
	□ Pre-Evaporation			REX Technology	
	☐ Falling Film				
☐ FOAM CONTROL					
	Washer Filtrate	Weak Liquor Storage		Soap Skimming	
	Foambreaker for Light Foal				
	Soap Concentrator for Hea	vy Foam and Soap			
☐ HEAT RECOVERY AND UTILIZATION					
	■ Blow Heat	☐ Condensers		Systems	
	Pre-Evaporation				
	Digester Heaters and Circu	lation			
	Direct Contact Gas Coolers	S			
	☐ TMP	☐ Hot Water		Steam Generation	
	Heavy Liquor Heaters				
	Waste Heat Boilers				
☐ LUNDBERG CUSTOM EQUIPMENT					
	Pressure/Vacuum Relief Va	alves (PVRV)			
	Flame Arresters				
	Jacketed Valves				
	Lundberg Soap Separator/S				
	Heat Exchangers	Heavy Liquor Heaters			
	☐ SO ₂ Gas Fans				
	ION CONTROL	_	_		
	Black Liquor Oxidation	☐ Weak		Strong	
	Condensate Stripping	Steam		Air	_
	_	☐ TRS	_	MeOH / BOD	COD
	■ Noncondensible Gas	Collection		Incineration	Scrubbers
		☐ Strong		Dilute	☐ SOG
	Direct Fired Oxidizer (DFO)		_		
	Plywood Industry	☐ Heat Exchangers		Steam Tunnel Condensate E	•
	Regenerative Thermal Oxid	, ,	ч	Regenerative Catalytic Oxidiz	er (RCO)
	■ Wet Electrostatic Precipitat	or (ESP)			
□ SPECIAL SYSTEMS					
	White Liquor Oxidation	山 Air	Ц	Molecular Oxygen	
	Sulfur Addition – Kraft Liqu				
	Recausticizing – White Liqu				
	Ash Treatment Systems – S	Saltcake			
☐ TURNKEY					
	☐ Engineering				
	☐ Complete EPC				