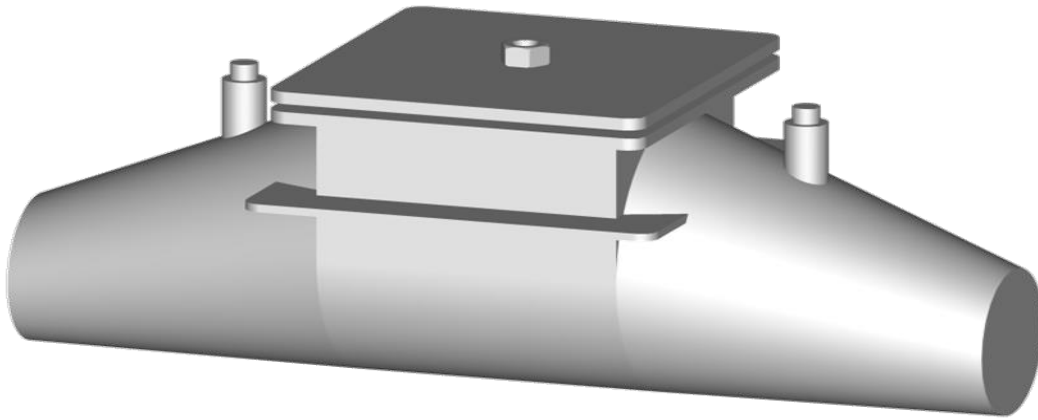


# FLAME ARRESTERS



## FEATURES

- Specifically designed for the pulp and paper industry
- Over 850 arresters installed
- Suitable in VOC, LVHC, HVLC and SOG systems
- Removable heat absorbing pack for ease of cleaning and replacement
- Weld-end or flanged
- 2" up to 36" diameter
- Vertical or horizontal installation

## BENEFITS

The collection of TRS and volatile gases in Non-condensable Gas (NCG) and Odor Abatement Systems is an integral part of the pulp mill's environmental program. The flammability of many of these gases presents the possibility of flame propagation in the collection system's pipe lines. The flame arrester is an effective precaution against flame propagation and possible damage to process equipment. To meet the rigorous standards of our NCG Systems, Lundberg developed and supplies a proprietary designed flame arrester.

Since 1977, with hundreds of units installed, Lundberg's Flame Arrester has proven to be a reliable and versatile device for system safety and protection.

## 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
- Systems
- Steam Generation

### LUNDBERG CUSTOM EQUIPMENT

- Pressure/Vacuum Relief Valves (PVRV)
- Flame Arresters
- Jacketed Valves
- Lundberg Soap Separator/Soap Skimming Rake
- Heat Exchangers
- SO<sub>2</sub> 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
- COD
- Scrubbers
- SOG
- Steam Tunnel Condensate Evaporator
- Regenerative Catalytic Oxidizer (RCO)

### SPECIAL SYSTEMS

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

### TURNKEY

- Engineering
- Complete EPC