

IN PURSUIT OF THE ONE AND ONLY

LIQUID AMMONIA TREATMENT RANGE



Direct contact of liquid ammonia

Liquid Ammonia Treatment Process modifies the quality of cellulose fibers especially cotton fabrics, and there are many features of fabrics that are achieved by direct contact of liquid ammonia. This process is available for woven and knitted

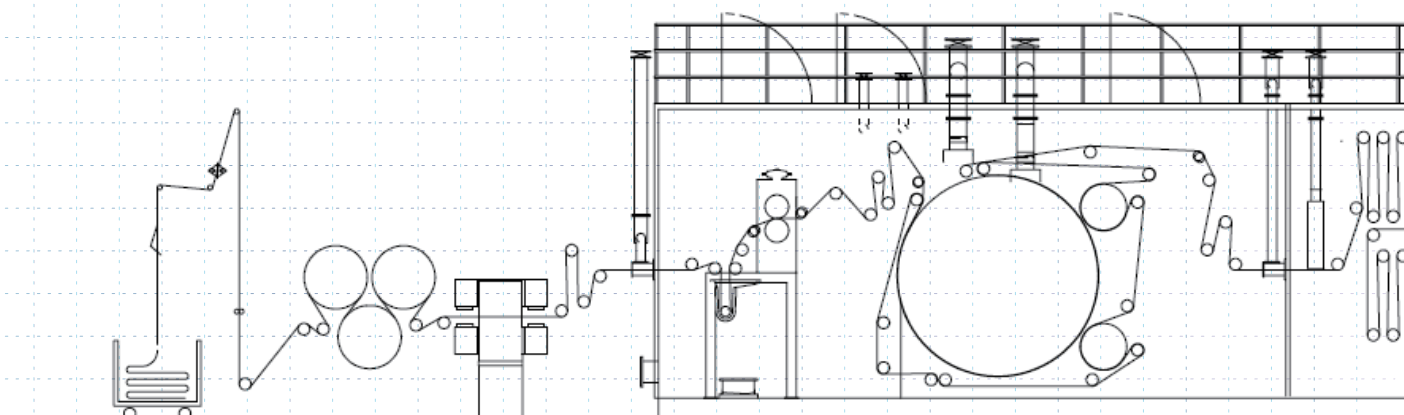
fabrics.

More than 96% of used ammonia is recovered by Ammonia Recovery System and reused for Liquid Ammonia Treatment Process.

1 Features of Liquid Ammonia Treatment

Liquid Ammonia Treatment Range can produce various features such as:

- Tear Strength
- Soft Texture
- Dimensional Stability
- Shrinkage Stability
- Wrinkle Resistance Improvement
- Volume Improvement
- Fine Luster
- Wash-and-Wear / Drip-dry

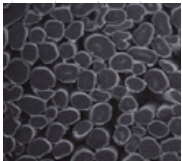


2 Configuration of Cotton Fiber before and after liquid ammonia treatment

Cross Section



Before Liquid Ammonia



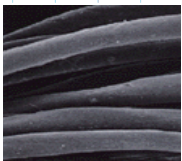
After Liquid Ammonia

By applying liquid ammonia, cotton fibers are swelled to be roundish section and those recover twisting. Fibers get shrunk.

Plane



Before Liquid Ammonia



After Liquid Ammonia

However, the percentage of shrinkage is much smaller than mercerizing process.

Ammonia Treatment Equipment



Front View



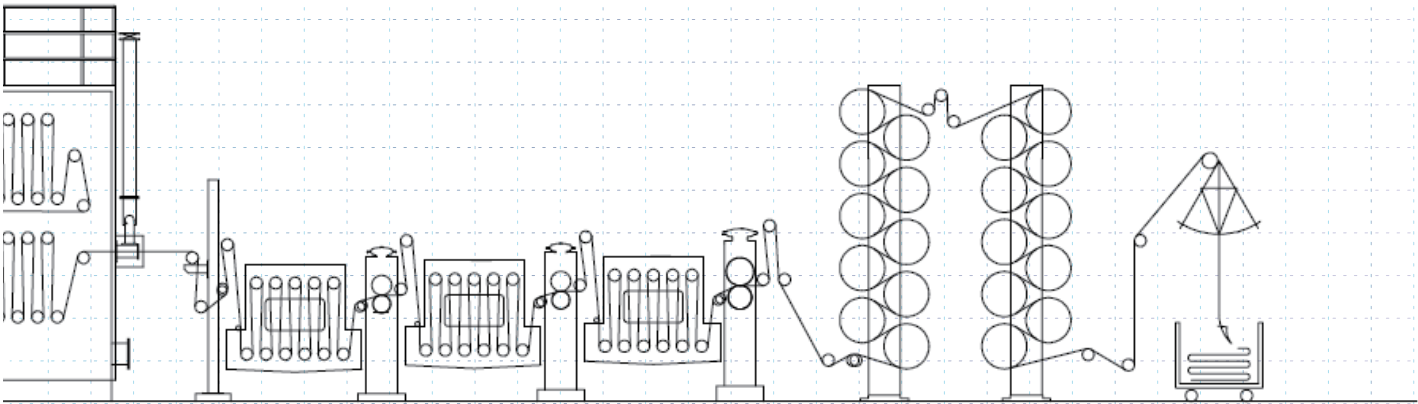
Rear View



Right Front Side



Right Rear Side



Ammonia Supply & Recovery System



NH₃ Supply Tank

NH₃ Pre Cooling Unit

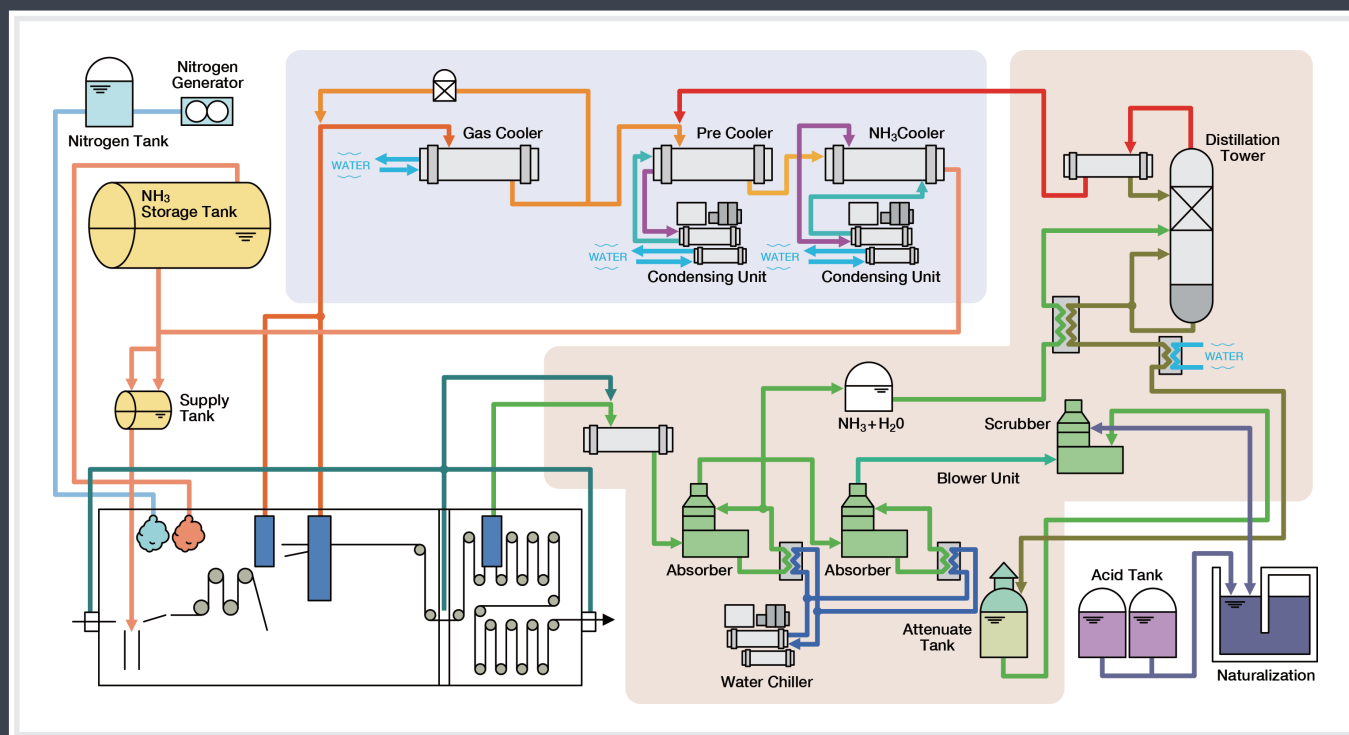
NH₃ Condensing Unit



NH₃ Absorber & Scrubber Unit

NH₃ Distillation Unit

NH₃ Storage Tank



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