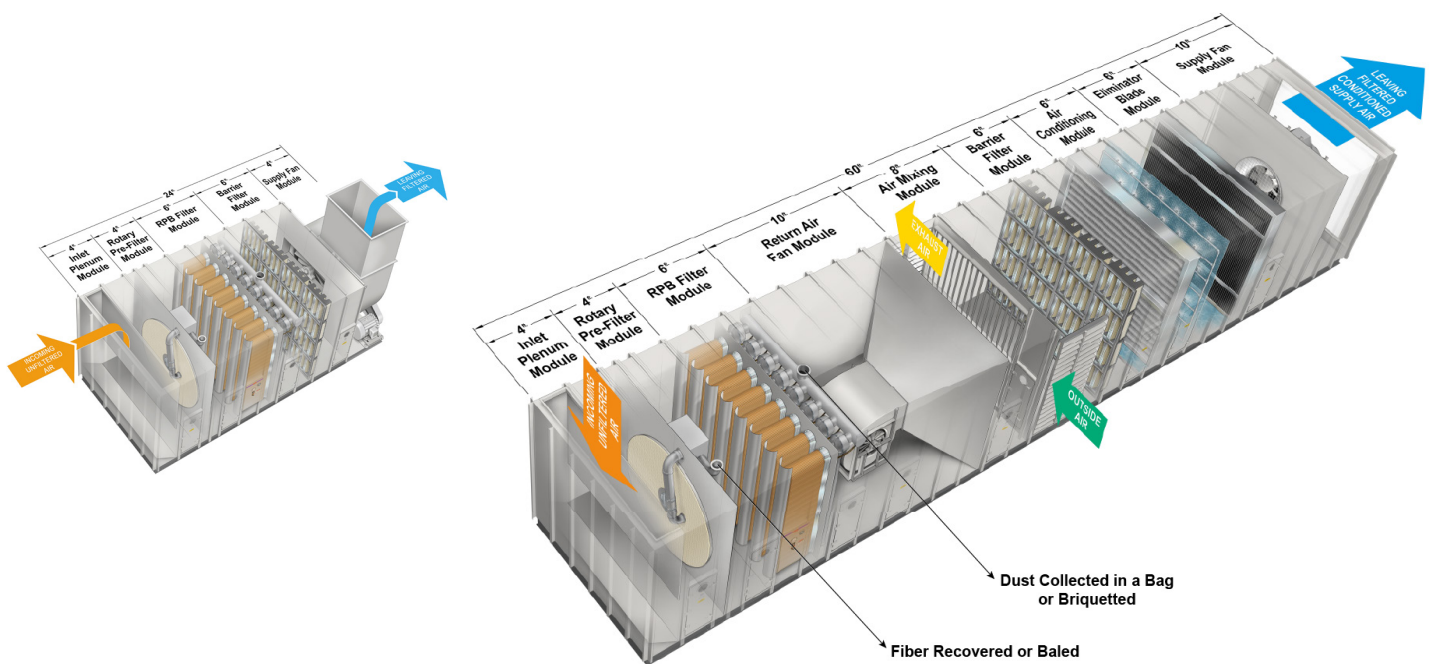


Diaper and Feminine Hygiene Products Applications

Our proven system has decades of experience providing reliable temperature, humidity, and dust control.

Luwa provides a unique approach to the filtration and air conditioning solution for disposable diaper and feminine hygiene product manufacturing. The applications require the ability to capture both dust and fibers and the unique properties of Super Absorbent Polymer (SAP) used in these products require special care. The Luwa system provides better dust removal technique using a high efficiency filter that requires $\frac{1}{3}$ the floor space of conventional rotary drum filters. And it can be combined with integral air conditioning components for the most economical upfront and operating cost.

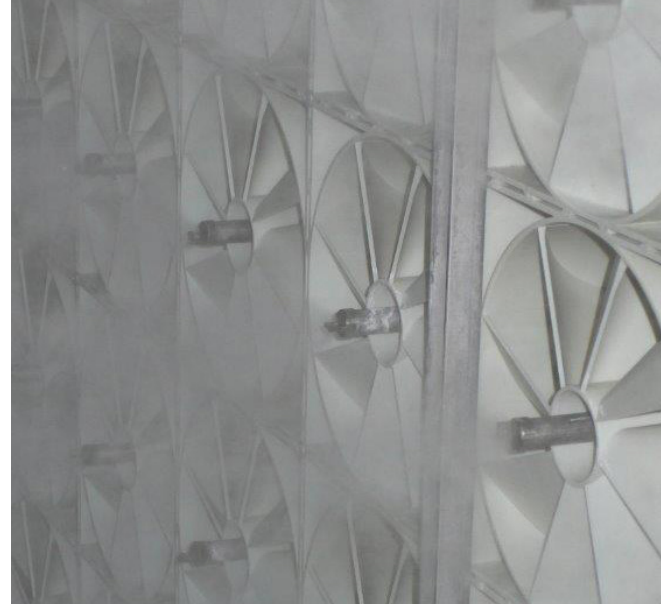
Suction is provided to the production line machinery at the required points. Smooth metal duct conveys the dust and fiber laden air to the **Luwa EVERCLEAN™ & Evercool** unit. Fiber is filtered out first by a rotary prefilter screen followed by the unique **Rotary Pleated Belt** filter. The air is either cooled with water coils or humidified with **TexFog** fogging sprays. Finally, it is supplied back to the manufacturing hall with a combination of metal and fabric ducts. Waste material is collected through the stripper vacuum system, including smooth metal duct, small high pressure fans, and a cylindrical pulse jet final filter. Waste fiber can be baled or reclaimed to the process and waste can be briquetted.



Diaper and Feminine Hygiene Product Application

Features and Benefits

- High efficiency Pleated Belt Filter collects SAP at high efficiency and eliminates the need for multiple stages of static filters downstream, hence saving space.
- Reduces operating system pressure drop and therefore energy consumed.
- Reduces maintenance cost for replacement of the static filters.
- Reduces landfill waste volume. Air exiting the filter is cleaned and sent directly to an A/C coil and humidification section.
- Integration with air conditioning modules simplifies ducting reducing up front capital expense and operating energy cost.
- Allows individual production lines to operate completely independently if desired for increased overall plant reliability.
- Air conditioning module is completely hygienic using Reverse Osmosis (RO) filtered water in fogging spray for humidification - no stagnant or recycled water for hygiene application.



TexFog fogging nozzles atomize water into fine droplets that evaporate with no stagnant water.



High Pressure water pump skid provides RO filtered water in a once through system for hygienic humidity control. Chilled water coils in the Evercool unit provide cooling.



The RPB filter is the most compact, efficient, and reliable filter for effectively handling SAP in a single stage.