Those in corrugated industry face many challenges, including air quality of the production area, negative air pressure and cleanliness of the print station and machine. Conventional options in the market place, such as conventional bag houses, hanging bags, and wet scrubbers may require additional equipment and use of water. Engineered Recycling Systems offers a solution: a continuous cleaning process air and dust filtration system. The system has a conveying fan, pre-filter, filter unit, trim and fiber compactor, compacting power screw and cyclone separator.

Features of the system include a regenerative CCM™ filter system unit resulting in low pressure loss, no compressed air or water requirements, handling of large volumes of air with smaller footprint and functionality of the filter is visible during operation. An advantage of using this system versus conventional options is that it’s NFPA and OSHA guidelines-compliant without additional equipment.

The design of the CCM™ Filter completely departs from conventional filter systems. The CCM™ Filter is stationary and can be bolted directly to a wall opening. The incoming air flows from the inside to the outside, leaving the drum through the whole filter surface. This means that the air inside the filter chamber is clean. Rotating and changing suction nozzles inside of the drum continuously vacuum any dust and waste from the filter media. Little air is required to clean the filter medium as the suction nozzles are efficient. The nozzles are fluidic optimized and touch the filter media, which guarantees high and efficient cleaning. The CCM™ + Filter features an additional large particle filter in the form of a pre-filter disc that is installed at the air intake side of the CCM™ Filter. Large particles will adhere to the rotating disc while the fine dust passes through it into the drum. A stationary suction nozzle cleans the CCM™ + Filter disc. The suction nozzles inside the CCM™ Filter and the pre-filter disc can be driven by the same motor. The CCM™ Filters are perfectly suitable for energy efficient filtration of large volumes of dust-laden air such as paper, wood, hygiene, make up air, etc.