

CASE STUDY

Batch Processing

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JOB OVERVIEW

Key Features

- Process scale up from lab scale
- Molecular time-release fragrance technology
- Five batch blending modules working together as one system
- System designed to break apart for international container shipment

Challenges

- Designing modules for efficient breakdown, shipment size restrictions and minimal onsite reassembly
- Molecular level technology required precise blending
- Abrasion free, low-pulsating, twin screw pumps for formula integrity

Impact

- Efficient batch processing systems were delivered to European and Southeast Asian plants on schedule and under budget.
- Systems were commissioned by EPIC's team and began manufacturing newly developed product on agreed upon start-up date

THE EPIC SOLUTION

A consumer fragrance company needed two multi-skid systems designed, fabricated and delivered to two different international plant locations. EPIC was approached to design the multi-skid systems to produce a new product that was being introduced to the market.

EPIC scaled up the new time-release fragrance technology and fabricated two multi-skid batch blending systems. One including a Clean-in-Place (CIP) module that was installed and integrated at a different location within the client's facility. The CIP module worked in sync with specific single-flow, self-priming Bornemann Pumps that were integrated on the batch skids to meet sanitary and sterilization qualifications. Using these pumps and other components integrated by one of EPIC's process project managers, these batch skids were capable of changing out and producing multiple fragrance formulas.



Both systems were designed to fit within limited shipping space, and for simple reconstruction upon arrival at their new location. Prior to shipping, the completed modular batch blending skids were disassembled, securely shipped under ISO container restraints, then successfully reassembled and installed on location. After successful start-up, EPIC demonstrated the new process in full production before fully handing off production to the client.