



CONSERVATION OF RESOURCES

Tank Optimization and TNK1C Save Customer ~\$900 Per Unit, Streamline Tank Package Sourcing

Technical Application Bulletin

CHALLENGE

An OEM manufacturing concrete finishing equipment was sourcing three different tanks per machine, all without in-tank filtration, resulting in overcomplicated part number management and increased cost. The supplemental offline filtration, compensating for the lack of in-tank filtration, took up extra space on the machine. The customer sought solutions to streamline their systems and enable better purchasing efficiency.

APPROACH

Through the Tank Optimization analysis program, Schroeder Industries was able to evaluate the existing reservoirs, then design and manufacture a single tank solution to replace the three different tank designs—the **TNK1C**. With high performance Air Fusion Technology (AFT) in-tank filtration included in the TNK1C packages, the onboard supplemental filter systems were no longer required.

RESULTS

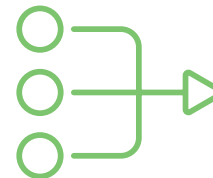
- Streamlined sourcing and part number management. The TNK1C was able to replace the individual tank designs, allowing the customer to source a single tank solution with filtration included and simplify their part number management.
 - By transitioning to the TNK1C, the customer saved approximately \$900 per machine
 - Removal of supplemental filtration & transition to rotomolded reservoirs reduced overall system weight
- AFT filtration and Schroeder Industries synthetic media elements greatly improve cleanliness, deaeration.

- ◆ Tank Optimization uses cutting-edge simulations and CFD analyses to discover inefficiencies in existing tank assemblies and develop efficient solutions
- ◆ TNK Series: Complete tank packages with filter housings, breathers, other components; engineered for improved degassing and durability in operating extremes



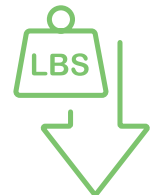
CUSTOMER SEEKING
TO STREAMLINE SYSTEM
UTILIZING 3 DIFFERENT
TANK DESIGNS

EFFICIENT DESIGN
ALTERNATIVE
DEVELOPED THROUGH
TANK OPTIMIZATION



STREAMLINED
SOURCING TO
SINGLE
TNK TANK DESIGN

OVERALL SYSTEM
WEIGHT REDUCED



DESIGN IMPROVEMENT
SAVED APPROX.
\$900 USD
PER UNIT

