



# Saving Energy and Operation Costs



**The Client:** Midland Plastics

**The Challenge:** System Inefficiency/Performance

**The Solution:** Quincy QSV 1100E and EControl 3.0

## THE CLIENT

Midland Plastics is one of the Midwest's oldest and largest plastics suppliers with its headquarters in New Berlin, Wisconsin. They produce high-quality, custom plastic component parts utilizing advanced routing, machining, and milling technologies.

Whether the needs are dispensing head for food/beverage, a livestock/poultry feeder bin, or everything in between, Midland Plastics has a plastic solution that is lighter, more resistant, and longer lasting than traditionally used materials.

Midland's in-house Engineering/Design capabilities, combined with complete manufacturing technologies, ensure they can bring to life any plastic need. Learn more about their capabilities, experience, and locations at <https://midlandplastics.com/>.

## THE CHALLENGE

Midland's existing vacuum pumps (Quincy QSVI-40 and (2) 40HP competitor fixed speed machines operating at 24"HgV) were being serviced by one of Quincy's distributor's, [Zorn Compressor and Equipment](#). When the distributor asked how much vacuum they use, the customer replied "I don't really know for sure. I think a second pump comes on sometimes". That prompted the idea of conducting a vacuum audit to get an accurate assessment of what the process truly required.

**Audit Results** – The audit measured the vacuum level and motor amps over time. It was determined that their application required 553 ACFM @ 24"HgV, and was consuming approximately 44.25 HP to meet that demand.



## WORLD'S BEST WARRANTY OFFERING 10-YEAR AIREND

When it comes to reliability, everyone is making the same promise. But when it comes to keeping the promise, Quincy Compressor stands alone. This is why Quincy Compressor offers its exclusive ten-year airend extended warranty that covers both parts and labor on select models. Reliability is about confidence, performance, and trust - every day. Quincy Compressor's Royal Blue Warranty is proving reliability one decade at a time.



### THE SOLUTION

An evaluation of variable speed curves showed that a QSV 1100 E could meet the demand and consume approximately 17.5 HP less than the existing installation. Based on the customer's cost of electricity and the annual operating hours, the solution represented a **savings of nearly \$9K** in operating costs alone. For this end-customer, reducing the overall vacuum footprint was also of strong interest. Prior to the audit, a two pump solution (to provide redundancy) using larger pumps was presumed necessary. Excited to save energy and floorspace, the customer ordered the (2) QSV 1100E pumps AND an EControl 3.0 (a multi-pump controller) to ensure the pumps are efficiently optimized as a central system!

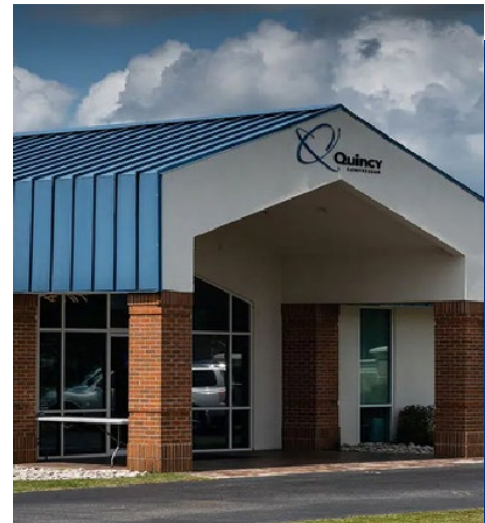
With excellent coordination between [Zorn Compressor and Equipment's](#) sales and service teams, the installation and commissioning yielded a beautiful, clean, and effective installation.

### Key Takeaways

Auditing an existing installation is an extremely effective way to remove ambiguity, confirm/dispel preconceived notions of solutions, quantify savings, and provide clients with exactly what they need! If you suspect your vacuum system is underperforming, or curious to know if there's a more efficient solution, [Contact the Quincy Vacuum team today!](#) **Let the data guide the way!**

### UNDENIABLY THE WORLD'S FINEST

Quincy Compressor specializes in compressed air and vacuum technology, offering top-notch products and services since 1920. Serving the industry for over 100 years, Quincy is on the cutting edge, engineering quality and reliability into every offering. Award-winning accomplishments have allowed Quincy to build solid relationships with its customers and achieve compressed air systems best practices. Quincy's flagship products include the QSI and QGV rotary screw compressors, the reciprocating QR- 25, QT and Climate Control packages along with its innovative Royal Blue Warranty, widely recognized as among the industry's strongest warranty program.



701 North Dobson Avenue  
Bay Minette, AL 36507  
251.937.5900  
[quincycompressor.com](http://quincycompressor.com)