



POLLUTION PREVENTION RESULTS AT TRUE MANUFACTURING IN O'FALLON, MO

OVERVIEW

True Manufacturing has been a leader in manufacturing commercial and residential refrigeration equipment since 1945 and has a strong commitment to sustainability. As stated in their Sustainability Statement; "True Manufacturing is committed to being a sustainable and responsible business. We seek eco-friendly components and processes to minimize the environmental impact of our operations and products."

The company has a long history of sustainable practices. True Manufacturing was a leader in using R-290 refrigerants and has won several Energy Star product awards and has 83 base models listed with Energy Star (264 total models).

POLLUTION PREVENTION (P2) PRACTICES

True Mfg. has been aggressively pursuing P2 since 2009 through their sustainability program. The following are some of the successful P2 practices that the company has implemented over the years, including their most recent projects:

- Converted from solvent-based coatings to powder coating
- Reuse scrap metal onsite
- Replace R22 insulation blowing agent to Eco-Mate low GWP blowing agent foam to reduce Global warming potential of the product
- 575kW of roof-top solar panels and installed solar water heating for restrooms
- Reduced natural gas consumption by 38% per square foot through retro-commissioning
- Reduced electricity consumption by improving air compressor efficiency, reducing compressed air leaks, and retrofitting lighting to LED and installing lighting controls
- Reuse of quench tank overflow following the coating process by using it as overflow for the two rinse tanks on the parts washing system

NEW WATER CONSERVATION STRATEGY

More recently, the company has implemented an aggressive program to reduce water consumption from the parts-washing process. Company engineers measured the total dissolved solids levels in rinse tanks over time to establish a defined level of contamination that could adversely impact the parts-washing process on three of the four coating lines. Once the levels were established, freshwater overflow rates were adjusted to maintain adequate contaminant levels in the tanks. This allowed the company to reduce overflow rates by 7 gallons per minute on one line, and 9 gallons per minute on the other two lines. This has resulted in a total annual water reduction of 2.5 million gallons per year, yielding an annual savings of \$22,500.



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SOLID WASTE REDUCTION PROJECT

In 2021, the company installed a powder coating sieve to remove contaminants and large particles from powder paint used in the fluidized bed. The filtered powder is then reused in the fluidized bed. Since implementing the new equipment, the company has reduced over 40,000 pounds per year of waste powder paint for a savings of \$80,351. The cost to implement the paint sieve was \$27,000, resulting in a payback of just 0.34 yrs.

CONTACT INFORMATION

For more information about the successful Pollution Prevention projects at True Manufacturing, contact:

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