

CASE STUDY



OPTIMIZE YOUR AIR SYSTEM

WASTE MANAGEMENT BLAINE, MN BRANCH

COMPANY OVERVIEW

Waste Management is a national waste hauler with a fleet of vehicles dedicated to daily pick up of waste and recycling for residential and business customers. The branch located in Blaine, MN has a fleet of 100 vehicles to service their customers.

CHALLENGES

When a waste hauling vehicle is on it's route the driver is applying the brakes at regular intervals. These brake applications cause the air system's compressor to run frequently throughout the day. Each time the compressor runs moisture is created and collected in the service tanks of the vehicle.

- This shop maintains top notch air system maintenance practices, but found that daily manual tank draining is not always enough to keep the system from freezing up
- Vehicles outfitted with a competitor's valve froze up because the valve did not completely purge the moisture from the system thus becoming fouled with ice and contaminants rendering the valve inoperable
- When the vehicle is away from the shop and a freeze up occurs the estimated cost for the road call is \$200 - \$500
- The shop realizes the need for moisture removal on a continuous basis throughout the work day

SOLUTION

The Expello Automatic Drain Valve (ADV) removes moisture, oil and other contaminants from compressed air systems every 5 minutes of vehicle on time.

Easy to install, it takes about 20 minutes to complete

Maintenance free, durable construction

Thermostatically controlled heater

Regular 5 minute purge cycle

RESULTS

The pilot program indicated no freeze up events for vehicles outfitted with an Expello drain valve. Vehicles equipped with a competing automatic drain valve and those with no ADV were both prone to freeze up with an average of 63 total moisture events recorded during the winter months.

30 yearly average freeze-up events cost the company \$6,000 - \$15,000

Savings to company during pilot period: \$400 - \$1,000

Payback period is .63 - 1.57 years



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