

# CASE STUDY

## PENTAIR'S ETHANOL RECOVERY SOLUTIONS

### Jack Daniel's Distilling Company - Haffmans Ethanol Recovery System

Fully self contained - Generating additional value - Process optimization

#### In a Nutshell:

##### Jack Daniel's Distilling Company

Lynchburg, TN, USA

**Portfolio:** Whiskey in the World: Jack Daniel's Old No. 7, Tennessee Honey, Gentleman Jack and Tennessee Fire

**Installed system:** Haffmans ERS Ethanol Recovery System



#### Equipment Supplied

ERS Ethanol Recovery System for recovery of ethanol from fermentation flue gas. The system is fully self-contained and able to be cleaned in place.



#### The Challenge

Jack Daniel's was looking for ways to improve and optimize their process.

Fermentation vent gas represented an opportunity to recover lost spirits and generate additional value for the Lynchburg Distillery.

#### Pentair Haffmans' Solution

Haffmans supplied an ethanol recovery system designed and built to recover ethanol entrained in the CO<sub>2</sub> exhaust gas vented from a 40,000 gallon fermenter.

The 300 SCFM system was commissioned in 2018 and recovers 75-80 original proof gallons (OPG's) every day from vent gas. Ethanol recovered in the system is of equal quality to ethanol produced inside the fermenter. The system paid for itself in six months with the amount of ethanol recovered from the fermentation process. Ethanol recovered in the system is of equal quality to ethanol produced inside the fermenter. The system paid for itself in six months with the amount of ethanol recovered from the fermentation process.



"We are very happy with the Haffmans ethanol recovery system. I had no idea how much ethanol was in our vent gas until we installed and ran the system.", says Jack Daniel's Engineering Manager, Bill Spraggins (pictured above left).

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