

# **Pop-Off Detection**

Instantly detect compressor run status and prevent costly failures and downtime

### **Model Compute Requirements**

Spec'd as 15 microphones running concurrently

# How does audible pop-off detection work?

A pop-off event is caused by the over pressurization of a vessel, the pop off is a safety device used to relieve the pressure and "reseal" once the pressure has dropped below a certain point. Typically they are not dangerous, however, the potential danger comes from the gas being released, as well as if it continues for a long period of time we can start releasing fluid from them. The benefit is that you are made aware that there is an issue quickly versus typically, you get a noise complaint from a nearby landowner.

# Do I need to monitor the microphone?

No. Like all CleanConnect.ai machine models, its designed to work autonomously. Our motto is "let the Al do the work," that way no one needs to be dedicated to listen. We produce telemetry data that is sent to your SCADA system, similar to other IIoT devices, so you can monitor your compressor run status via your SCADA system autonomously.

#### MINIMUM REQUIREMENTS

CPU - 1 Cores GPU - N/A RAM - 15 GB

### What camera is required?

None. The pop-off detection monitoring machine model uses an industrial grade microphone to continuously listen for pop-offs on your critical infrastructure.

# What is the Return on Investment? (ROI)

Prior to our machine model, clients were regularly doing remote call-outs to check on compressor run status. In addition, they were not able to do preventative maintenance on compressors, so a failure would cause a shut-in, losing revenue and increasing costs. So, monitoring compressors can save considerable time & money, and they ROI from one failure pays for years of the service. INCLUDED IN Autonomous365.ci

Our Al Machine Model is Continuously Listening

Our AI machine model was trained to listen for normal facility sounds, so it can detect any abnormal behavior.

Audible Pop-Off Detection

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### What is the cost of Pop-Off Detection?

The pop-off detection AI machine model is included with our Autonomous365 suite, which is designed to provide autonomous HSE, ESG and operations.