

## Application

Constant Oil Vapor Monitoring to Ensure Compressed Air Quality

## Goal

Meet compressed air quality standards and improve product and process quality

## Sector

Cosmetic Industry

## Customer

Cosmetic Manufacturing Company



# Ensuring Product Quality Through Constant Oil Vapor Monitoring

In the cosmetic manufacturing industry

## Overview

A leading cosmetics manufacturing facility is committed to creating superior beauty products. Maintaining the integrity and quality of their cosmetic formulations depends on ensuring the purity of the compressed air used in their manufacturing processes. The company was looking for a dependable solution to manage the amount of oil vapor in their compressed air systems.

## Challenge

The Cosmetic Company faced several problems regarding the compressed air quality. The safety and quality of the cosmetic products were jeopardized by the oil vapor contaminating the compressed air system. Conventional monitoring techniques were proving inadequate data, so a more advanced and precise solution was required to guarantee adherence to industry rules and standards for product quality.

## Solution

After evaluating different options, the Cosmetic Company decided to implement the S120 Oil Vapor Monitor, offering the best solution to permanently monitor the oil vapor levels, with the following features:

- 1. High Sensitivity:** The S120's high sensitivity provided a precise measurement of even minute amounts of oil vapor in compressed air.
- 2. Real-Time Monitoring:** Real-time monitoring data allowed plant managers to track oil vapor levels continuously, providing immediate feedback on the air quality within their compressed air systems.
- 3. User-Friendly Alarms:** The intuitive interface made it easy for operators to monitor and interpret the data. Alarms and notifications were integrated to indicate deviations from acceptable oil vapor levels.
- 4. Compliance Assurance:** The S120 was designed to meet and exceed industry standards for oil vapor monitoring, providing the operators with confidence in complying with regulatory requirements.

## Implementation

The S120 Oil Vapor Monitor was seamlessly integrated by the service company Airtec Global into the compressed air systems. The installation procedure was executed with minimal interference to the continuous manufacturing processes, and the monitor was adjusted to meet the facility's particular specifications.

To guarantee that operators and maintenance staff could monitor, interpret, and react to real-time data efficiently, training sessions were arranged by Airtec Global to make sure they were conversant with the S120's features.

## Results

The Cosmetic Company noticed a great improvement after implementing the S120 Oil Vapor Monitor.

- 1. Product Quality Assurance:** Ensuring high product quality and meeting the stringent quality standards required for cosmetic production.
- 2. Operational Efficiency:** Preventing production delays and minimizing the risk of product spoilage by proactively addressing any issues related to oil vapor contamination thanks to the real-time data.
- 3. Regulatory Compliance:** Proving compliance with industry standards and air quality regulations thanks to the dependable data.
- 4. Cost Savings:** Reducing product rejections and rework by preventing oil vapor contamination and its possible effects on product quality.

## Conclusion

The Cosmetic Company effectively increased its commitment to product quality and regulatory compliance by placing a high priority on real-time monitoring, high sensitivity, and compliance assurance. The S120 from SUTO iTEC proved to be a vital instrument, guaranteeing that the compressed air used in the production of cosmetics fulfilled the strictest purity requirements.

## Partner

Airtec Global is a leading industrial compressed air services and solutions provider in the North America



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