

CASE STUDY

Phosphate Fertilizer Expansion Cyclones

Fisher-Klosterman

END USER: Phosphate Fertilizer Producer

INDUSTRY of PURCHASER:
Mining & Fertilizer

LOCATION: Kingdom of Saudi Arabia

PROJECT DESCRIPTION:
Fertilizer Dust Removal From Exhaust Gases and Product Recovery

SITUATION: A mining and phosphate fertilizer manufacturer in the Kingdom of Saudi Arabia was interested in expanding its production capacity, aiming to become one of the top three global producers of phosphate fertilizer.

CHALLENGE: Finding a solution that would fit Quad and Dual cyclones with common hoppers into an indoor manufacturing environment with extreme height restriction.

SOLUTION: The CECO High Growth Region team (CECO India and Middle East office) worked with customer consultants to solve their problems with high-efficiency cyclone models.

PACKAGE:

- 2 sets of Quad Dryer Cyclones
- 2 sets of Quad Cooler Cyclones
- 2 sets of Dual Vent Cyclones

ENVIRONMENTAL BENEFITS:

With 95%+ efficiency, the cyclone will remove maximum dust from the exhaust gases, recovering more than >900,000 tons/yr. of fertilizer dust.

CECO ADVANTAGE: The CECO HGR team is confident in their offering. This project helped them force the limits of the equipment and drove innovation into our design and fabrication capabilities.

