VANTERM
Passion for excellence in clean air solutions.

CASE STUDY NAME

FILTRATION OF CERAMIC AND CLAY DUST

Case Study Facts

Product:	AC – Filter Unit EK – Extraction arms ECO- Mobile filter units	Process:	Polishing & Grinding workshop

Application plant: Esma Dereboy Porcelain & Art Workshop

Esma Dereboy
HANDMADE PORCELAIN

Requirements & Challenges

Tableware and home accessories, which are **made of ceramic**, are produced with special techniques developed in Esma Dereboy Art Workshop. At some stages of production, which is made with today's modern technology, ceramic parts are **polished or grinded** manually. Fine **ceramic and clay dust**, which released during polishing and grinding process, was disturbing the operators and causing an uncomfortable working environment. In order to eliminate this problem and to **protect employee health** at the highest level, an effective solution was required for **dedusting** the production hall.

SOLUTION

VANTERM determined the amount of **extraction-air** required, acc. to the measurements and observations made in the production area of the **ceramic parts**. The air capacity calculation was made mutually, taking into account the possible production increases for the coming years. It was proposed and accepted to use **EK-series extraction arms** in order to collect ceramic and clay dust at source, to avoid the dust from spreading around. The necessary duct recommendations and the related pressure loss calculations were carried out and the system was put into service, successfully. The solution is provided in the project by using **AC-model filter unit** and EK-series **extractions arms**. Additionally, **ECO-1 model mobile filter units** are also used at couple of points.

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