

CASE STUDY NAME

# DUST COLLECTION AT AUTOMATED SANDBLASTING



## Case Study Facts

Products: \* KF 1100-5 Filter units

Process: Automated Sand blasting

Customer: LEGRAND ELEKTRİK SAN. AŞ. - Turkey

*\*KF Series filter units were replaced with AC-Series filter units in 2008. The current equivalent of KF 1100-5 filter unit is AC-123 Filter Unit.*

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## Requirements & Challenges

There were poor dust collectors at the LEGRAND plant, to capture the dust and smoke generated during the **sand-blasting of the plastic parts**. The speed of the production and sand-blasting was very high. The performance of the **existing filter units** were not enough and this caused dust problems inside the production hall. LEGRAND was looking for a solution for this filtration problem.

## SOLUTION

First, VANTERM made site-measurements in order to find out the dust emission load in the production hall. After gathering **all the required information**, VANTERM determined the required capacity of the filter units. There were totally 3 lines of production at the Legrand plant, where the sandblasting was applied. The working period was 3 shifts per day, which means **a non-stop working cycle**.

Since it was very important for LEGRAND to be as flexible as possible for any future lay-out changes, it was decided to install a separate KF 1100-5 filter unit for each line. The filter unit **thanks to its compact design** were easily installed, in the constricted production hall. The dust problem at LEGRAND plant is solved successfully.



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