



CASE STUDY

HEALTH PROTECTION OF THE EMPLOYEES



THE CHALLENGE

WIESHEU GmbH, situated in Affalterbach (Germany), is one of the leading European manufacturers of innovative and stylish ovens for baking. They manufacture products of stainless steel. Processing stainless steel requires special instructions to regulate the health protection of your employees.

Therefore those responsible within the company have decided to equip the welding workplaces with source extraction. As source extraction remains the most effective extraction system for capturing welding fumes, by far.

Plymovent offers various fixed and mobile solutions for at source extraction. Extraction arms, mobile and stationary units are extremely user-friendly, easy to install and use. By fitting individual fans to each arm, like WIESHEU did, optimum extraction is guaranteed!

The company was founded in 1973 by the young Karlheinz Wiesheu, an enterprising young butcher whose first sales success was selling ovens to butcher shops. Nowadays WIESHEU sells between 6,000 and 6,500 baking ovens per year. Mainly to bakeries and the food retail market. However, also butcheries and filling stations with convenience store have come to appreciate the reliable ovens of WIESHEU.



» I'm very glad we made this investment. «

QUOTE BY Mister Tobias Kuhn, Welder, WIESHEU GmbH.

www.wiesheu.de

Despite a sluggish domestic economy, in 2007 WIESHEU turned over in excess of € 59,5 million, up 11% on the previous year, and employs around 350 people. Strong partnerships and links within the EU, for instance with the French oven maker Fringand, as well as with former socialist countries and Asia, are stimulating strong growth in the international market.

TESTIMONIAL

“Thanks to purchasing four extraction systems of Plymovent the breathing zones of the employees remain pollution-free. This certainly has a positive effect on the sick leave. I'm glad the fume is gone since we have this installation.”

THE SOLUTION

The welding area has a low ceiling. Therefore traditional extraction arms could not be used. Fortunately Plymovent has extraction arms in their portfolio that are especially designed for low ceilings. Four extraction arms type UltraFlex-4/LC (4 m) were mounted. Each extraction arm is connected to a separate fan and stationary unit type SFS.

The arms work with an automatic start/stop device in combination with a welding cable sensor. When the welder begins, the extraction device starts; when the welder is finished, the device shuts down. Thus it is guaranteed that the polluted air is only extracted during welding activities. On top of that the installation works according to the emission guidelines for alloyed materials.



MAIN BENEFITS

- Extraction arms are easy to operate.
- The BalanceWheel® system keeps maintenance to a minimum.
- Energy saving, thanks to welding cable sensor.
- Very effective extraction of welding fumes.
- Clean, save and healthy work environment.
- Less sickness notices.
- The stationary unit type SFS are automatically cleaned by compressed air, that guarantees a long lasting filter lifetime.



SYSTEM FACTS

Year of installation

- 2007 and 2008

Type of installation

- Source extraction

Number of workstations

- 4

Extraction arm

- 4 x UltraFlex-4/LC
(low ceiling)

Filtration

- 4 stationary units SFS

Fans

- 4 x FAN-28

Options

- Working light in extraction hood
- Automatic start/stop switching by means of a welding cable sensor

DE-04

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