



Case study

Air cleaning devices create a healthy working environment



Customer

Typhoo Tea



Location

Merseyside
(UK)



Sector

Tea
production



Dust reduction

81 %

At a glance

“The air cleaning devices from Zehnder Clean Air Solutions have exceeded all of our expectations. We would have been satisfied with 50% less dust, but a reduction of 81% is truly unparalleled. The difference it has made for the team is enormous.”

Danny McGrail, Operations Manager

Challenges

Typhoo Tea is the largest producer of tea in the United Kingdom. The company is highly committed to the well-being of its employees. However, at some point, the fine dust produced during the process of mixing tea began to affect the health of the workforce. Breathing became difficult for the employees, and it was also uncomfortably warm. Dust from the mixing hall also spread to other areas of the facilities, resulting in high cleaning requirements of up to 15 hours a week. Typhoo management set itself the task of finding an optimum solution for air cleaning within the food industry.

About Typhoo Tea

The Typhoo Tea Company is Britain’s largest own label tea manufacturer. This distinctly British brand is manufactured at Moreton on the Wirral and employs just under 300 people.

Benefits

After installing the air cleaning devices from Zehnder Clean Air Solutions, the effect was immediately apparent. Dust levels in the mixing hall dropped by 81%. The air is much cleaner now, the employees feel noticeably better and the entire working environment is healthier. Cleaning requirements have been reduced from 15 hours per week to 5, saving the company valuable time and money. On top of that, the air cleaning devices also provide beneficial air circulation, making the uncomfortable heat in the workplace disappear.



Since it opened its doors, Typhoo has shown an impressive commitment to its employees’ well-being. The company has various measures in place to protect employee health and safety. These include an on-site health and safety manager, a stringent personal protective equipment (PPE) policy and a health and safety committee with links to the unions.

“Health and safety is our number one priority – it impacts every other aspect of the business.” – Danny McGrail, Operations Manager, Typhoo Tea.

When high dust volumes created by various tea blending products began to affect employee health, Typhoo management took immediate action. **The dust created in the blending area made it difficult for employees to breathe easily and the area was uncomfortably hot.**

What’s more, the dust created in the blending area migrated to other parts of the factory. This increased Typhoo’s cleaning costs. **Due to the high dust levels, the company had to allocate an extra 15 valuable hours per week to cleaning the blending area.** Unfortunately, this did not solve the problem at all.

Searching for a solution

In an attempt to reduce the amount of dust in its blending plant, Typhoo decided to rent two small air purification units. However, at a cost of £1,000 a week, the results were completely unsatisfactory, said Typhoo’s Mr McGrail.

But, Typhoo was on the right track – they just needed a better solution. The company invited

a number of different companies to come and demonstrate what they could do to solve its dust issue.

Investigating the high dust levels

Zehnder heard the call for help, got in touch and sent a team to the Typhoo facility. First, they measured the dust in the air to determine the extent of the problem. **These measurements showed significant spikes during operational hours clearly demonstrating that the blending processes were responsible for the high dust levels.**

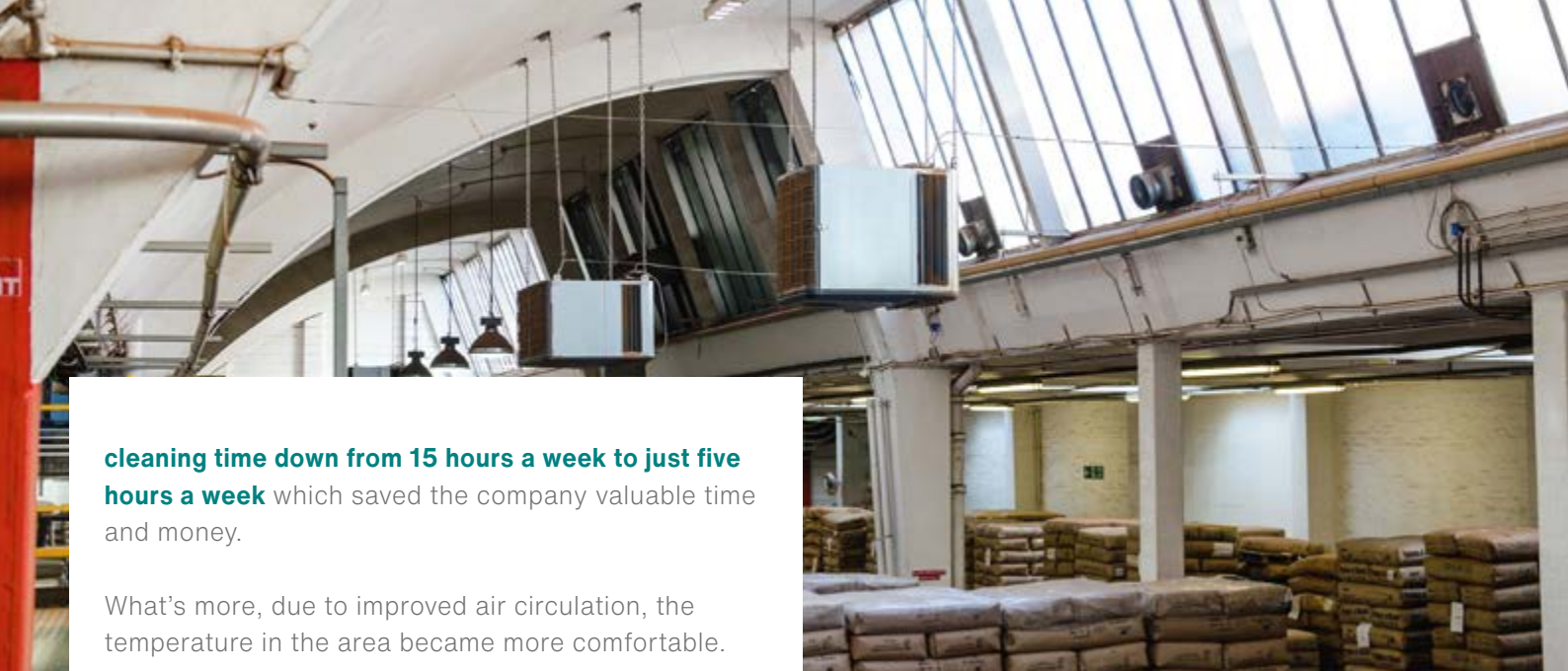
The Zehnder team presented these measurements to Typhoo – along with a proposed solution. Typhoo was impressed but what finally convinced them was a visit to another Zehnder customer that gave a glowing report. Typhoo signed off the deal and 13 Zehnder Clean Air Solutions units were installed at its facility.

Results in only 48 hours

The results were almost immediate – just 48 hours after installation, Typhoo employees could already feel a positive difference. The air was noticeably cleaner and workers said **they could breathe much more easily.**

The dust was measured again and Typhoo was amazed at the findings – dust levels had dropped by 81 % in the blending plant. **This cut additional**





cleaning time down from 15 hours a week to just five hours a week which saved the company valuable time and money.

What's more, due to improved air circulation, the temperature in the area became more comfortable.

"We were gobsmacked by how good the units were. We can't believe it went that well, Zehnder exceeded all our expectations. We would've been happy with a 50 % dust reduction, so 81 % is out of this world. It's making a big difference to the team," said Mr McGrail.

Moving forward

Typhoo is so happy with the results that they are now planning to install more Zehnder units in other areas of its factory. The company's aim is to provide all its employees with the cleanest air every day.

"Clean air is priceless. We want to provide our employees with the safest, healthiest working environment possible. Now that we are offering this to our workers in the blending plant, we want to roll it out across more areas as soon as possible," concluded Mr McGrail.