

# FUME SCRUBBERS FROM NIPLAST®

**NIPLAST® fume scrubbers perform an essential role in the removal of particulates from a gas stream. They remove contaminants from the stream by passing it through a packed structure, with all stages contained within a NIPLAST® thermoplastic scrubber body.**

The pollutant is then subsequently absorbed or balanced by the scrubbing liquor.

The mass transfer of pollutants from the gas into the recirculating liquor is achieved within Niplast® fume scrubbing towers, by creating the largest contact area possible.



Typical applications for NIPLAST® fume scrubbers include odour control, the removal of chemical fumes, dust controls and the control of chemical fumes during road tanker delivery.

The wet scrubbing of fumes is the process of removing liquid or solid particles from a gas stream by transferring them into a liquid. This liquid is often water or sodium hydroxide.

Within the thermoplastic scrubber body, the contaminated gas enters at the bottom of the scrubber via a large, flanged connection, then passes upwards through a packed bed and downward-flowing sprays of the scrubbing liquor. The pollutants in the contaminated gas are trapped and collected in the drops of the scrubbing liquor. Before the clean gas leaves the scrubber, it passes again through a mist eliminator that captures any remaining droplets. The scrubbing liquor is then collected within the sump section of the NIPLAST® fume scrubber before chemical re-balancing or transfer to waste. The scrubbing liquor has by this stage absorbed the contaminants, and the scrubber then releases the clean gas.

To request a quote or discuss further with an expert email [info@niplast.com](mailto:info@niplast.com) or call **0161 477 6777**

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