KWB are experts in the field of biological air treatment for livestock farming. With their Nitro Air scrubbers it is possible to reduce the output of ammonia, dust and odours, which commonly occur in pig farming, and thus meet strict Dutch environmental regulations. In order to guarantee a long service life for the scrubbers, which are exposed to particularly heavy weather wear, KWB opted for housings made of SIMONA® PE Twin-Wall Sheets.
Robust and long-lasting:
SIMONA® PE Twin-Wall Sheets

**Initial situation**
In 2006 the Dutch Ministry of Agriculture (VROM) issued strict environmental regulations with regard to the odour inconvenience caused by livestock farming; as from 2013 this legislation will apply to all pig-farming facilities in the Netherlands. The requirements also apply as a basis for harmonised European regulations. It was against this background that KWB developed a high-performance scrubber designed to filter out ammonia, odours and dust.

**Task**
The new scrubber had to be a combined solution for filtering out ammonia, reducing odours and collecting dust from the air. In addition to their low maintenance and cleaning costs, the scrubbers had to be made of a durable material and meet the following requirements:
- Excellent resistance to ammonia
- Very good resistance to microorganisms
- Insensitivity to weather, UV resistance
- Light weight for transport and assembly
- High strength and insensitivity to impact

**Solution**
The construction kit system of the Nitro Air scrubbers, including the pipes, is made of black PE 80 plastic. The entire housing is made of PE twin wall sheets developed by SIMONA. A number of scrubbers can be connected in parallel, depending on the flow of waste air. Refer to the high rigidity of the material, no additional cross-ribbing or steel sections for reinforcement are required. The excellent chemical resistance and guaranteed long service life, especially with exposure to UV light and weather influences, proved more than convincing for KWB. The KWB-designed Nitro Air scrubber has proven its reliability and been approved and certified by the Dutch Ministry of Agriculture – to the benefit of local residents and farmers.

**Further information**
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