



SUCCESS STORY

# A BREATH OF FRESH AIR

– smart, clean and green

Highly efficient and reliable  
gas abatement systems



#### INDUSTRY

Chemical company, Netherlands



#### REQUIREMENT

A special solution for the disposal of fluorine-containing gases, without test system with extensive specifications



#### EBARA SOLUTION

Special solution in specialty chemistry



#### CLIENT

Leading global supplier of titanium technologies, fluorine products and chemical solutions with a differentiated portfolio of premium products



**Ahead**  **Beyond**



## Project description

### Initial situation

The client, a chemical company with the most important production site for fluorine-polymers in Europe (plastics such as Teflon™ and Viton™), demanded a complete solution for the disposal of fluorine-containing gases.

The challenge was that due to the customer's tight timeframe, no test system could be planned in, while process guarantees were required, however. The multi-layered specifications and ever-increasing requirements, e.g., regarding gas flows resulted in a continuous expansion of the project. It went far beyond the mere sale of components.

### The solution

A 3-member EBARA team worked together with the client to develop a solution that is tailored to all requirements. It was important that feasible options were developed together and that the EBARA team was on site within two days if required. Based on experience from previous projects, existing products could be adapted to the customer requirements.

The customer defined the transfer point. From this point onward, EBARA took on the complete system starting with the first flange. The complete system consisted of five vacuum pumps, two abatement systems of the model G6-E with redundant design and running in parallel with a downstream gas scrubber. The EBARA Applications Team was responsible for necessary software adaptations.

### EBARA technology used

- Vacuum pumps  
model EV-M20NS-ME
- Gas abatement systems  
model G6-E
- Gas scrubbers
- Software customisations

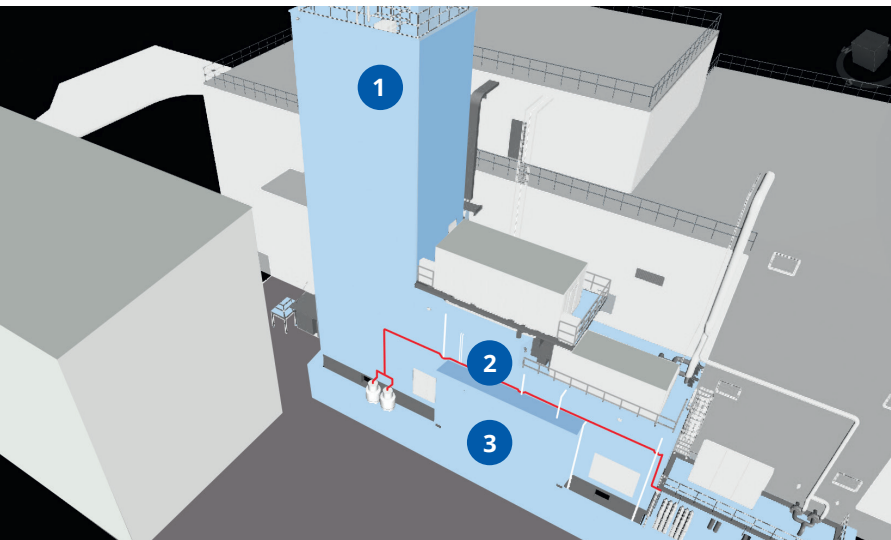


## The advantages

- Proximity to the customer
- Cutting-edge technology
- Flexibility

EBARA was the only supplier able to implement this special technological solution. The decisive factor was the customer service. We listened, discussed and visited the customer onsite. Together with the customer, we developed step-by-step the technical solution that is able to meet all of its requirements. Within a short time, we were on site to conduct coordination meetings, discuss technical concepts and newly added specifications. Besides the high quality of EBARA products and the engineering services within the applications field, the proximity to the customer was of the essence for a successful result.

### PEACE OF MIND with EBARA



Completed plant:  
1) Material dosing 2) EBARA gas extraction system 3) FEP production tool

EBARA is a worldwide leading global manufacturer of vacuum and semiconductor systems used in the production of wafers, liquid crystals, solar cells and other products requiring advanced technology.

EBARA supports



EBARA Precision Machinery Europe (EPME) is part of the Japanese EBARA Group and employs approximately 230 people in Europe. The portfolio includes dry and turbo molecular vacuum pumps as well as gas abatement systems. In addition, EPME sells state-of-the-art CMP tools, wafer bevel polishing and substrate coating systems. In Europe, EPME has a central warehouse and an overhaul centre for vacuum pumps.

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