

APPLICATION SHEET: Gas scrubber



Application:

A **gas scrubber**'s function is to treat flue gas containing pollutants that can be dissolved (Ex: Chlorine, Ammonia, Sulfur, etc.)

Counter-current methods are used for gas depollution in the washing tower. This operation is performed by a **circulation pump** that injects a liquid in the top section, via ramps. This creates a liquid/gas interface.

Once the **pollutants are soluble**, they are neutralized inside the liquid via chemical reactions (acid-basic or oxidation-reduction).

The liquid is then periodically retreated then sent to the water treatment plant.

Specifications required for the pump:

- Flow rate: **15 m³/h** and total head of **20 meters**.
- Treatment of toluene contained in gaseous discharge

The **POMPES GROSCLAUDE** solution:



Analyzing the solution

- Continuous operation
- Favor a metallic solution.
- Compliant to directive **ATEX II2G T4**

Technical description

- Model of pump installed **EX414X-140-3-2A**
- Centrifugal stainless steel 316L industrial pump
- Pump equipped with double mechanical seal with lubrication bottle.

Main advantages

- Stainless steel **316L** metal pump
- Hydraulic with semi-open impeller
 - o Passage of particles
 - o Dual-phase mixing



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