# Application



In many industrial processes, it is required to concentrate the active ingredients through distillation.

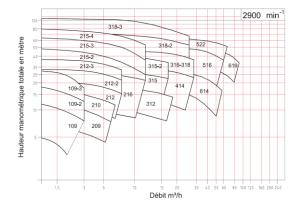
One of the most well-known examples is the manufacturing of vegetable extracts, where the most-used technique is to extract the active material from the plant by placing it in contact with a solvent. This solvent is then eliminated through distillation (*heating the mix under pressure, and evaporating the solvent which is then uncondensed*). This process, ideally, should be done continuously. The solvent needs to be extracted from a run-down tank that has a maintained vacuum (*very low available NPSH and close to the total head*).

The constraints are:

- Very low NPSH required
- Variable flow between the start and finish of distillation from a few m3/h to several dozen l/h.
- Complies with ATEX for flammable liquids

## The **POMPES GROSCLAUDE** solution





### Analyzing the solution

 The low flow rate associated with a significant total head makes these pumps ideal for this application. VACUUM EXTRACTION

THERMIC

OILS

MAGNETIC COUPLING

PNEUMATIC MOTORS

R4 – R15

TAYLOR MADE

FREQUENCY

**CONVERTER** 

GROSCLAUD

- These pumps are designed and manufactures in compliance with ATEX legislation.

#### Pump models installed: EX109/2X-95/90-0,37-2A-GMD & EX109/3X-95/90/90-0,55-2A-GMD

## **Technical description**

- **EX-BX** series pumps
- Industrial construction on base
- Material: 100% 316L stainless steel for parts in contact with fluid
- Tightness via double mechanical seal and lubrication tanks.
- Flow rate :100 l/h à 2 m3/h @ 15 mCl & 100 l/h à 2 m3/h @ 22 mCl

### Main advantages

- Our pumps make it possible to work in transient mode and even in dry mode at the end of operation.
- Open impellers are compatible with particles that may be present in the conveyed liquid.
  - Reduced maintenance

POMPES GROSCLAUDE www.pompes-grosclaude.fr