



GREEN CHEMISTRY



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Bio Base Europe
Pilot Plant

Equipment overview:

Glass lined, pressure proof and corrosion resistant reactors, coupled to a condenser and vacuum pump.

Properties:

- ▶ Pressures up to 9 bar
- ▶ Temperatures up to 200°C.
- ▶ Vacuum down to 20 mbara

Reactor volumes [ATEX]:

- ▶ 1 x 5400 L
- ▶ 1 x 1000 L
- ▶ 1 x 500 L
- ▶ 1 x 85 L
- ▶ 1 x 7 L

Auxiliary equipment [ATEX]:

- ▶ Filter dryer [1900 L]
- ▶ Conical dryer [980 L]
- ▶ Bag filter
- ▶ Filter press
- ▶ Basket centrifuge [40 kg]
- ▶ Continuous liquid-liquid extraction column
10 L/h



Relevant expertise:

ATEX zoning challenges the possibilities and freedom of operation. However, our team of experienced engineers and operators can always find a safe and workable approach.

Our team is ready to bring your product to the next level.



What we offer:

ATEX compliant installation and expertise for chemical processes:

- ▶ Solvent evaporation and condensation
- ▶ Zoning of the operational area to ATEX zone 2
- ▶ Explosion protection on all electrical equipment: ExII2G T3
- ▶ N2 inertisation and blanketing
- ▶ Pressure proof from -1 to 9 bar

Types of processes:

- ▶ Chemical synthesis reactions
- ▶ Chemical conversion reactions
- ▶ Chemical hydrolysis
- ▶ Extractions

Examples:

- ▶ Functionalisation of biopolymers and oligosaccharides
- ▶ Esterification of fatty acids
- ▶ Synthesis of oleochemicals
- ▶ Chemical synthesis of biosurfactants
- ▶ ...

For more information: please visit www.bbeu.org

For questions, please call +32 9 335 70 01 or send an email to BusDev@bbeu.org



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