

PRESS RELEASE

Small scale phosgene generator at CPHI 2026 in Milano

BUSS ChemTech dynamic and safe phosgene generation technology: now available in small scale



MILAN
6-8 OCT 2026

Visit BUSS ChemTech at the Swiss Pavilion
Stand 4H33, Gianluca Premoli and Ulrich Gehrke

Pratteln, Switzerland, 02.10.2026 – BUSS ChemTech, a company of the Nextchem Group since June 2026, presents its **small scale phosgene generator** at the CPHI 2026, in Milano from October 6th to 8th.

Since decades, BUSS ChemTech is an opinion leader in the global chemical industry with its proprietary phosgene production technology, which allows a dynamic production with the highest safety standards of the chemical industry, minimizing the quantity of phosgene present within the synthesis reactor itself and displaced to the consumers downstream.

Phosgene is a highly versatile molecule, used predominantly in the large scale isocyanates and polycarbonate production processes, and capillary in the synthesis of numerous specialties, fine chemicals and pharmaceuticals.

Due to phosgene toxicity and the high level of related precaution measures, international panels of experts, market stakeholders and academics scrutinize its synthesis and the interface with downstream applications: BUSS ChemTech's presence, expertise and contributions are well known and highly valued.

The market increasingly demands small scale plants, an application area not previously covered by BUSS ChemTech, which instead has historically delivered several phosgene generators with nameplate capacities ranging from 200 to 12'500 kg/h.

BUSS ChemTech, as the recognized technology leader, committed to fill this market gap and is presenting the small scale phosgene generator technology for the first time at the CPHI in Milano, Europe's largest pharma event networking all the key players in the industry supply chain.



20 kg/h phosgene generator: view of the reactor (without cover)

The small scale phosgene generation comes as a modular turnkey unit with a nameplate production capacity of 20 kg/h of gaseous phosgene, flexible to operate until ca. 5 kg/h depending on the demand of the phosgene consumer. The features of the bigger industrial units, such as the design philosophy of demand-driven dynamic production and hot stand-by capability, are maintained. Among the other characteristics, the safety concepts of double containment philosophy and automated measuring and control are adopted.

The reactor works with a slight excess of carbon monoxide over chlorine: both raw materials shall be fed to the unit by bottles on racks in client's scope. The client shall also make available cooling water, electricity, air for instruments and purging to a safety absorption unit.

The footprint of the unit is approximately 6 m in length, 3 m in width, 2.5 m in height.



20 kg/h phosgene generator: view of the utilities module side



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BUSS ChemTech AG is a technology and engineering company spanning more than 140 years of heritage. Since the invention of the BUSS-Loop® Reactor in 1950, high performance, reliable and safe process design solutions have been delivered for gas/liquid/solid reactions and not only. Countless reactions have been performed in the BUSS-Loop® Reactor, for non-ionic surfactants, API intermediates, crop protection chemicals, specialties, additives and many other chemicals. BUSS ChemTech is also remarkably known for its phosgene generation and phosgenation technology. Thanks to this distinguished reaction technology portfolio, the wide range of know-how, the process development assets and the flexibility for tailor-made project engineering and management services, BUSS ChemTech is your ideal process and plant engineering partner globally.

For more information, please contact Gianluca Premoli, Business Manager Reaction Technology.

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