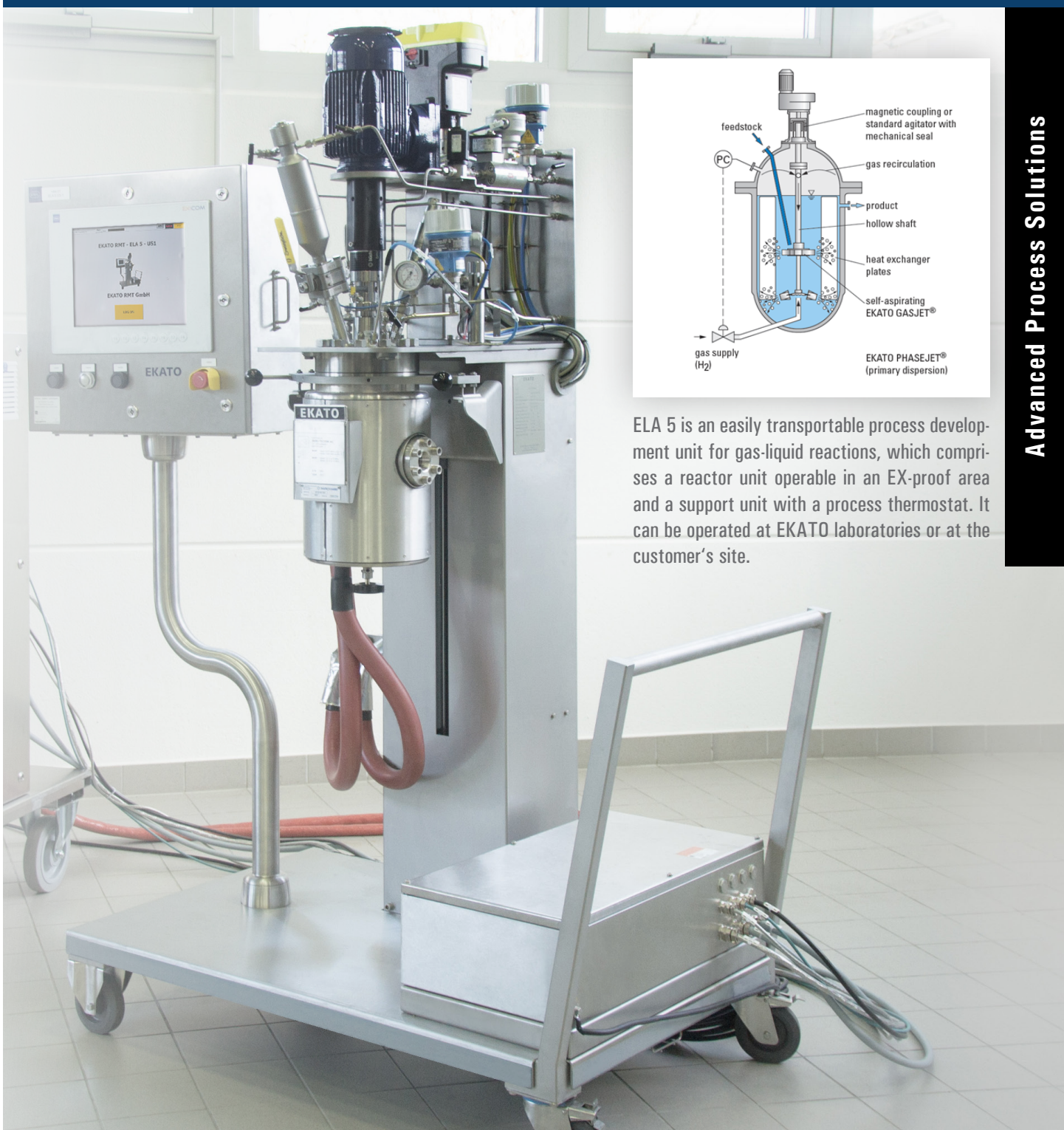
EKATO

EKATO Lab Reactor ELA 5

For the development of gas-liquid processes



ELA 5 is an easily transportable process development unit for gas-liquid reactions, which comprises a reactor unit operable in an EX-proof area and a support unit with a process thermostat. It can be operated at EKATO laboratories or at the customer's site.

Advanced Process Solutions

EKATO ELA 5

EKATO's specialists can facilitate the design and planning of your process development trials for data analysis and scale-up to plant scale. EKATO has extensive process know-how for complex and challenging process conditions including 2- or 3-phase systems. You can benefit from this vast knowledge base and experience gained over many years of developing and implementing innovative mixing technologies.

Process types

Batch or semi-batch, single or multiphase, across a wide range of gas-liquid processes:

- Hydrogenation
- Carboxylation
- Oxidation
- Ethoxylation
- Propoxylation

Characterized agitation systems for

- Minimized mixing times
- Maximized mass transfer
- Efficient solids suspension
- Effective heat transfer

Operating conditions

- Working volume: up to 5 litres
- Gas feed: up to 1.6 m³/h
- Temperatures: up to 250°C
- Pressure: 0 to 100 bar (abs)
- Viscosity: low viscous fluids

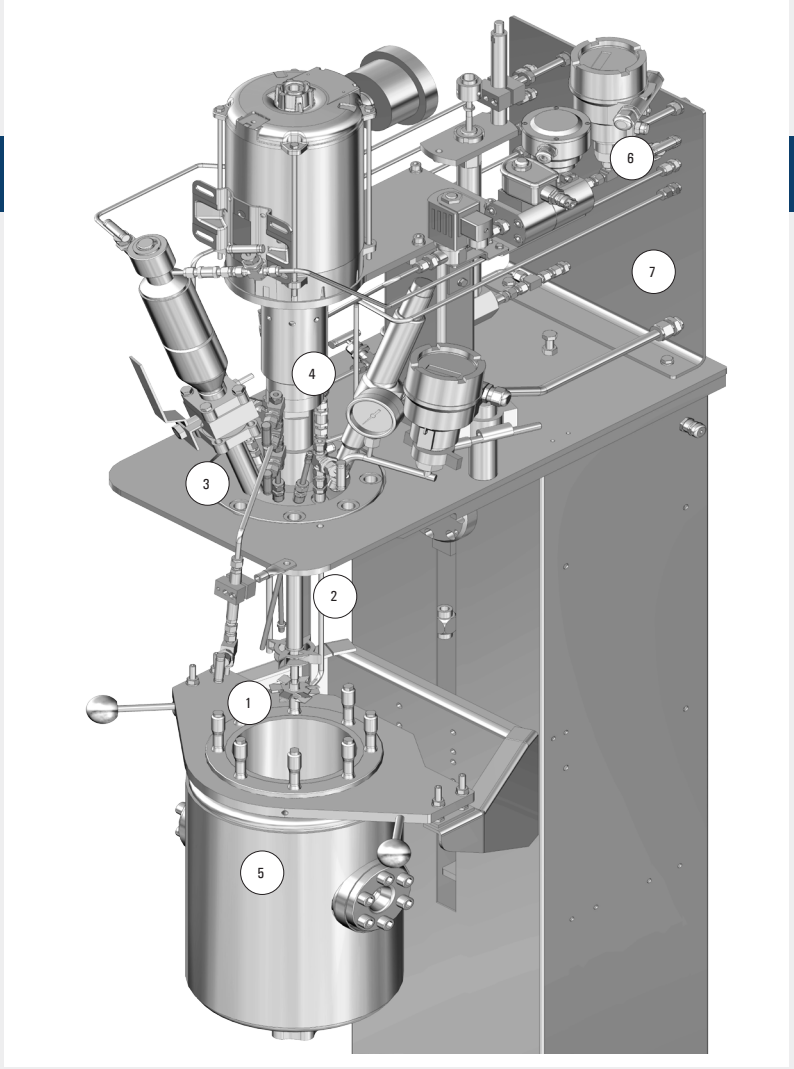
Process monitoring

- Gas feed
- Temperatures (vessel and jacket)
- Pressure
- Impeller rotation speed

Our service

Support from EKATO mixing specialists:

- Start-up of the unit on site
- Assistance for operation
- Scale-up expertise
- Guarantees for key process parameters



Features

Reactor unit operable in EX-proof area

1 Variety of different impeller systems such as the EKATO Combined Gassing System (EKATO PHASEJET and EKATO GASJET)
2 Adaptable baffle configuration (baffles, heat exchanger,...)
3 Catalyst feed vessel & sampling system
4 Magnet coupling for save product handling / EX-proofed components Zone 1T4
5 Variable vessel and internals. Additional glass vessel (less max. pressure)
6 Automated measuring and control technology with process monitoring system
7 Connection plate for save & simple connection to customers periphery onsite

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