

«limbo» / «limbo li» / «limbo ls»

Pressure reactors for high pressure and high temperature



Applications

- hydrogenation
- catalyst testing
- material testing
- super critical reactions



«limbo» / «limbo li»

Concept

- Instrument for high pressure reactions under super critical conditions with steel vessels in various volumes
- Manufactured and tested according to PED, AD2000
- Medium touched parts made of stainless steel 1.4571, 1.4435, 1.4980

Stand

- Stainless steel construction
- «limbo li» with 2-stage vessel lift

Stirrer drive

- cyclone 075, manually adjustable 100 – 3000 rpm, with integrated magnetic coupling

Vessels

- Type 3, 100 / 200 / 285 / 450ml, max. 350 bar / 350°C

Cover plate

- with 5x 1/4" Gi openings and welded magnetic coupling with cooling jacket
- Accessories: Manometer, Pt-100, bursting disc, 2 valves

Heating

- Electrical heating with built-in water cooling for fast and precise temperature control
- programmable cascade PID controller with remote control from PC

Options

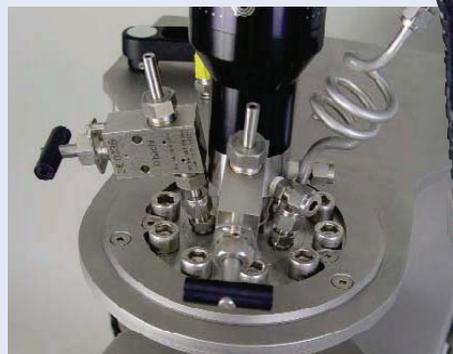
- Materials like Hastelloy, Titanium, etc.
- Higher pressures and temperatures
- Special setup, sensors, instrumentation



Stirrer and accessories



Temperature- and speed controller



Cover plate with 5 openings



«limbo li» with vessel lift

Safe and simple apparatus for lifting, lowering and removing of the pressure vessel:

- Smooth change of vessels
- Quick and easy change of stirrer shaft and stirrer
- Compact design fits in every fume hood



Manual lift for lowering the electric heating.

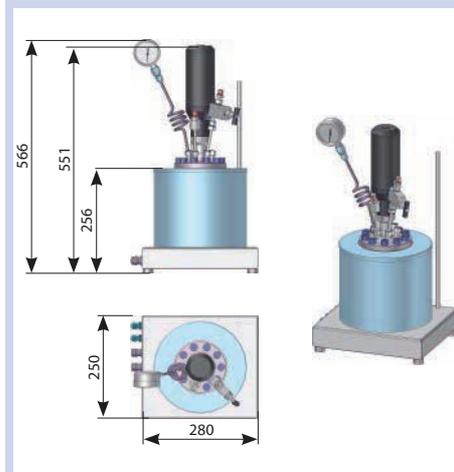
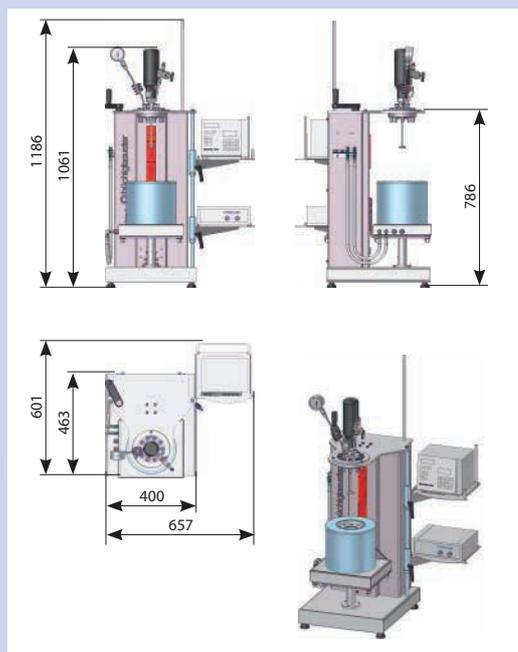


easy removal of vessel for cleaning, etc.



«limbo li»

Dimensions



«limbo»

«limbo ls»

Concept

- Instrument for high pressure reactions (under super critical conditions) with larger steel vessels
- Manufactured and tested according to PED, AD2000
- Medium touched parts made of stainless steel 1.4571, 1.4435, 1.4980, Hastelloy C22

Stand

- Stainless steel construction
- lift for pressure vessel

Stirrer drive

- cyclone 075, manually adjustable 100 – 3000 rpm, with integrated magnetic coupling

Pressure vessel

- Type 3, 0.5 – 5.0 Liter, 350 bar / 350°C

Cover plate

- with 7 openings ¼" NPT
- welded on cooling jacket for magnetic drive
- Accessories: Manometer, Pt-100, bursting disc, 2 valves, 2 plugs

Heating

- Electrical heating with built-in water cooling for fast and precise temperature control
- programmable cascade PID controller with remote control from PC with bls software

Options

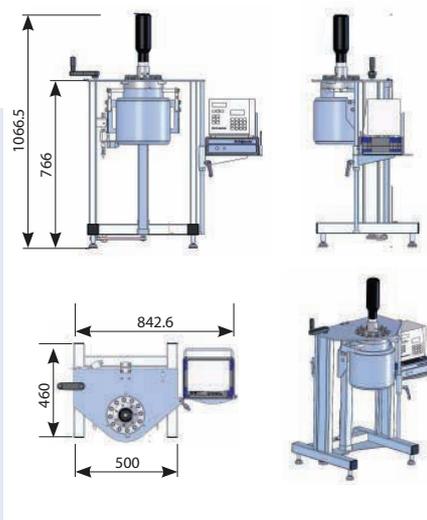
- Materials like Hastelloy, Titanium, etc.
- Higher pressure and temperature
- Special setup, sensors, instrumentation
- ATEX



open vessel



Cover plate and drive



Dimensions



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