



Here we are

ESCO - Labor AG

Riehen - Switzerland 





the new „*pm*“ generation

- The result of our aim producing plants more than 30 years
- through great experience in developing and constructing customized solutions
- for the cosmetic and pharmaceutical industries

EL-1 pm



EL-2 pm



EL-3 pm





Control panel with touch screen

- front view with ergonomical panel
- easy cleanable
- plugs for pump and heating unit
- plug PT100 for external heating control



- USB interface for memorising of the process datas for product traceability

- Main switch and emergency bottom



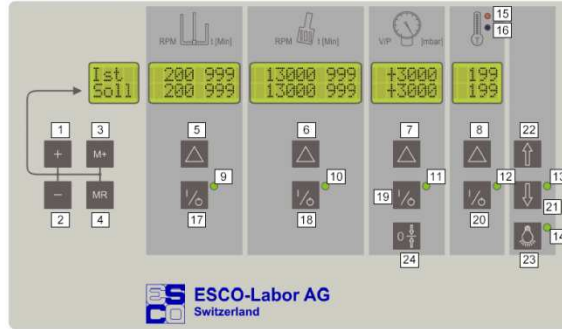
- Back view with frequency converters
- Modern electronic with chip technology





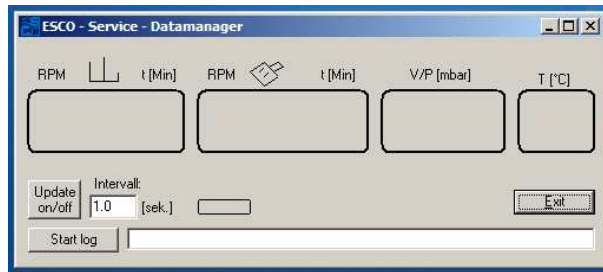
Data- logging software

4.0 ESCO-Service software

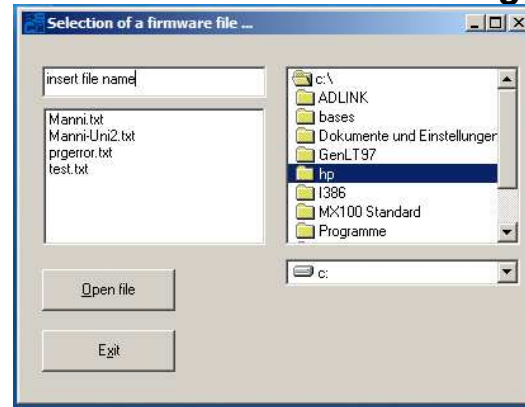


- Heating controller and vacuum pressure controller upper lower level or piab vacuum system

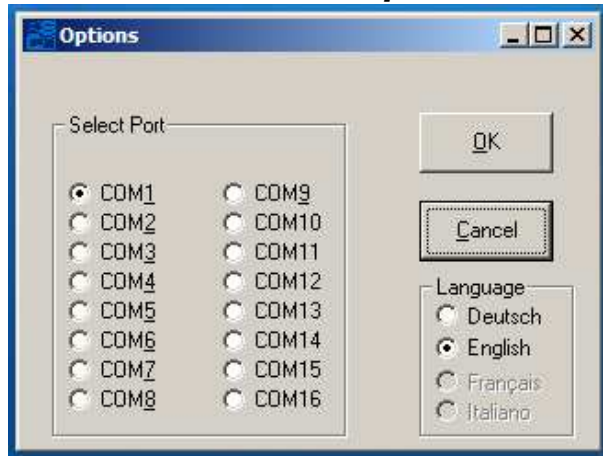
4.2 ESCO-Service datamanager



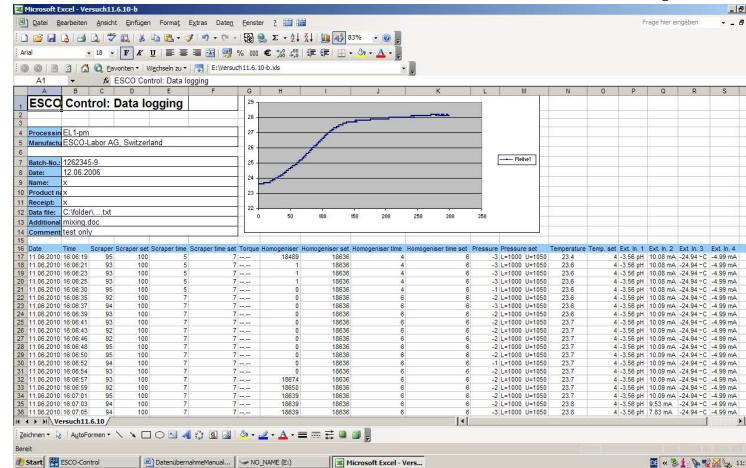
4.3 ESCO-Service "start log"



4.4 ESCO-Service "options"



5. Screenshot EXCEL-file for data-export





Temperature- and pressure controller

on control board

- Wika pressure sensor to pressure controller
- Pressure relief valve



- Temperature control unit up to 200°C
- PT100-2 in product for external control
- pressure and temperature resistant isolated tubes with isolation and quick couplings



- pressure vessel with piston bottom valve
- interchangeable with glass vess



- KNF membrane vacuum pump 50mbar absolute and suction capacity of 30 l/min





EL-1pm complete arrangement





Container adjustment

for glass vessel and pressure vessel in stainless steel

- container in fixed position
better centricity and soft glass fixation
- simple handling
loosen by hand the two screws
- support vessel by one hand
- easily pulling back the adjustment
- safe glass removal

- Container adjustment without glas

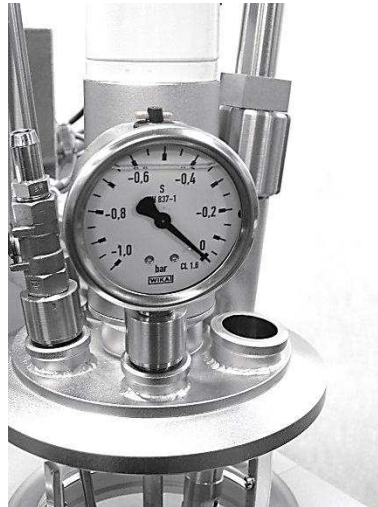




Lid design

in aseptic execution

- GMP- conform Tri- Clamp connection with FDA seals
- Lid for Tri-Clamp or conical ports



- Lid seal O-ring
- mirror and electro polished surface
- Sealing housing for pressure and vacuum
- Quick disassembly of sealing housing



- membrane or ball valves with PTFE membrane

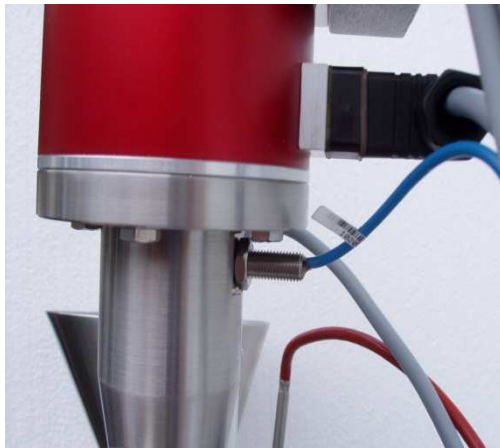




New homogeniser motor

automatically with three position controller

- PTC sensor for motor temperature
- high precision revolution sensor rpm actual speed (instead % calculation)
- repeatability for formulation of scraper and homogeniser speed
- three- phase motor frequency controlled with 21400rpm 3x230V, lifetime like a production machine
- Seperate fan for cooling
- noise <70dbA





Design feature

- anti cable damage plate





pressure vessel

with bottom outlet valve

- EL3pm pressure execution up to 5 bar
160°C for unilever best food
- clip- version PTFE scraper blades



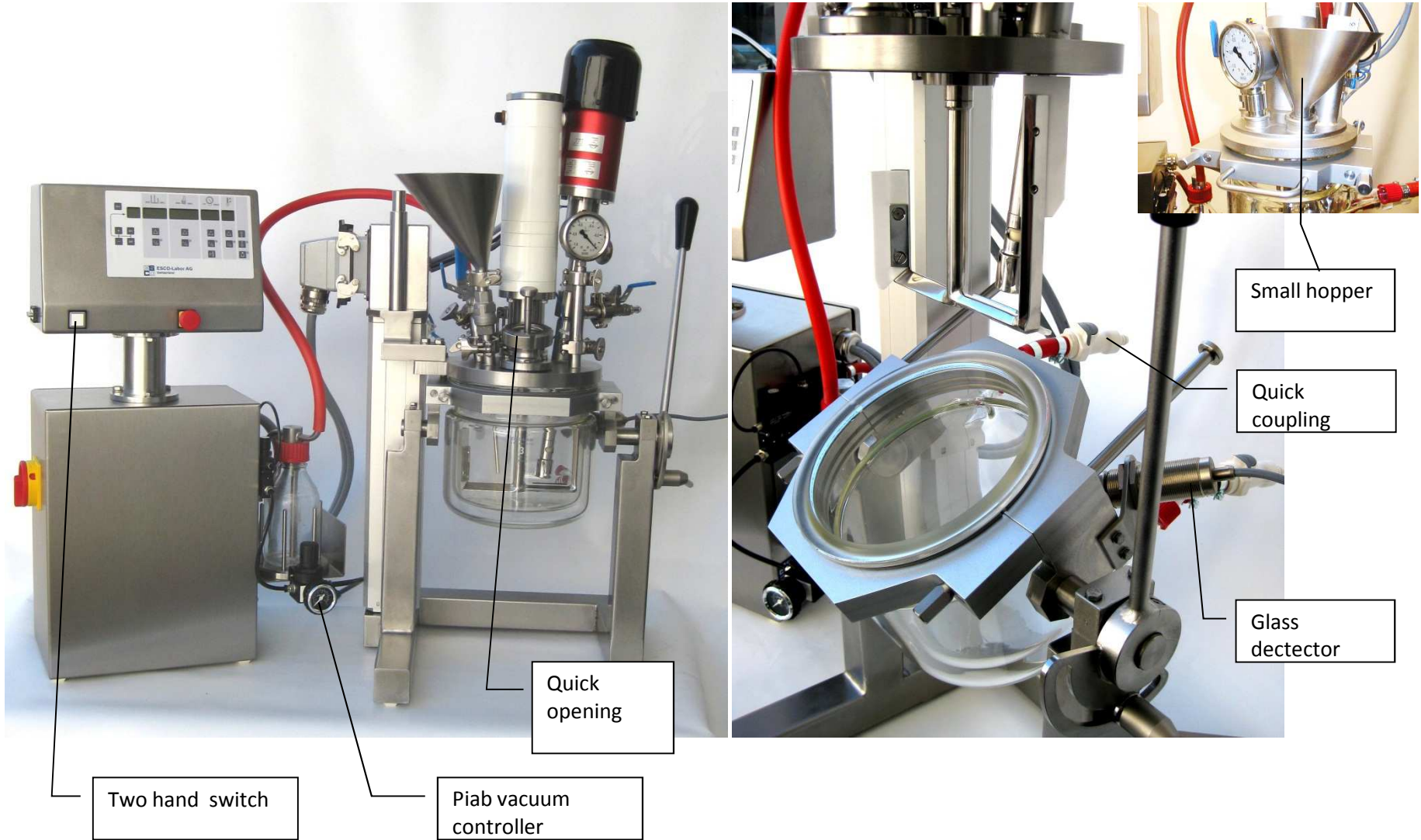
- triple jacket pressure vessel





L`Oreal France specialities

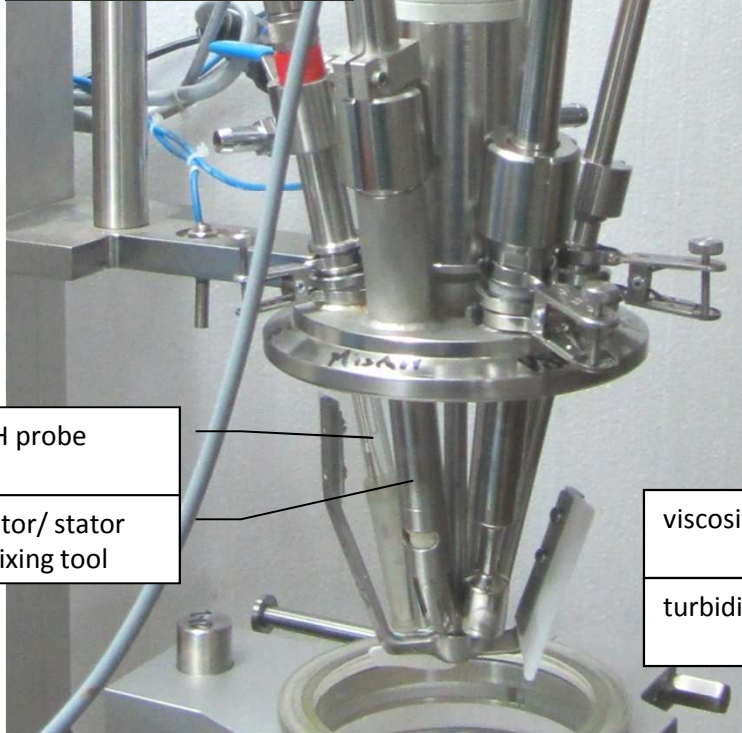
EL-3pm





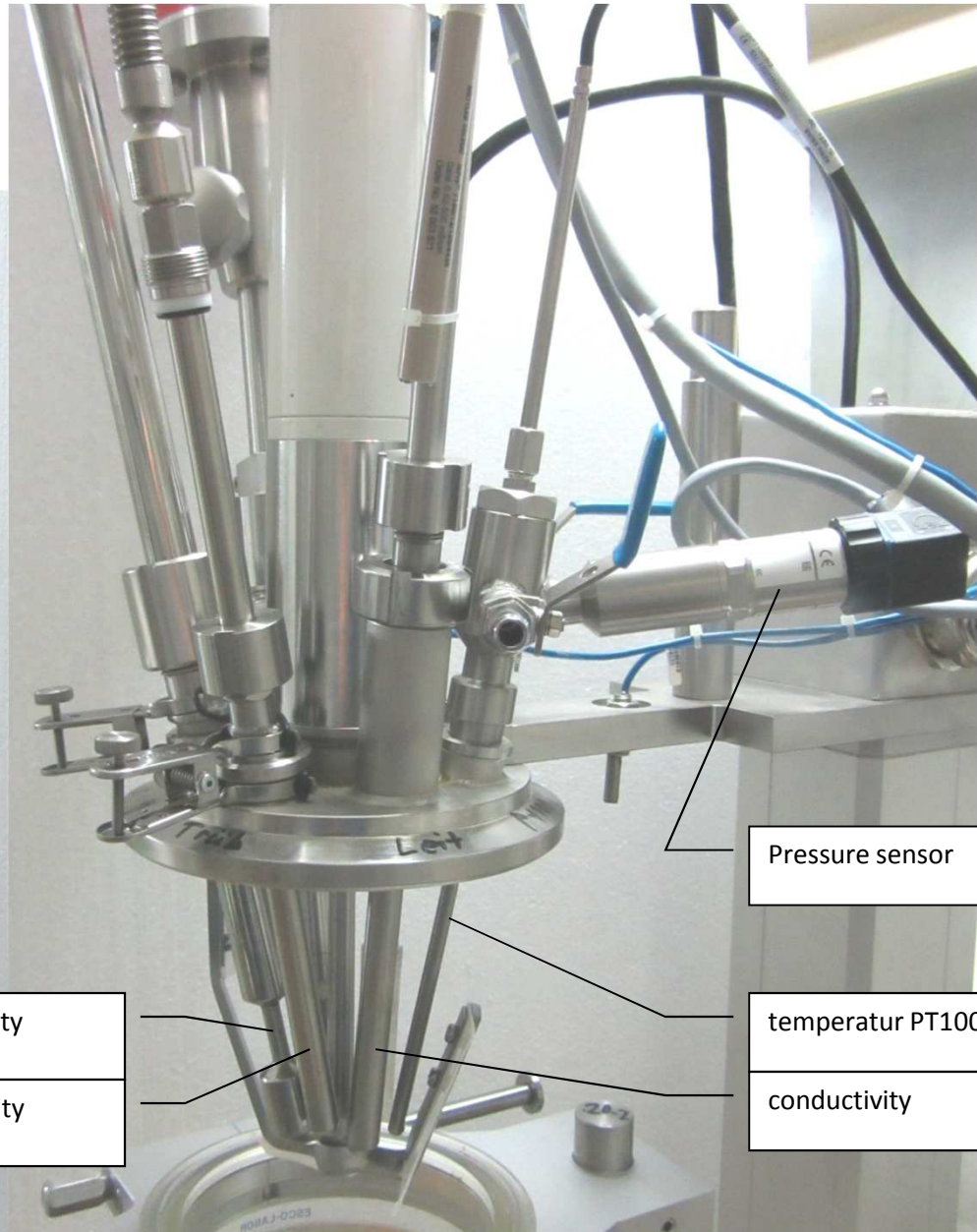
DSM probes

EL 0.5pm conical version



pH probe

rotor/ stator
mixing tool



viscosity

turbidity

Pressure sensor

temperatur PT100

conductivity



DSM

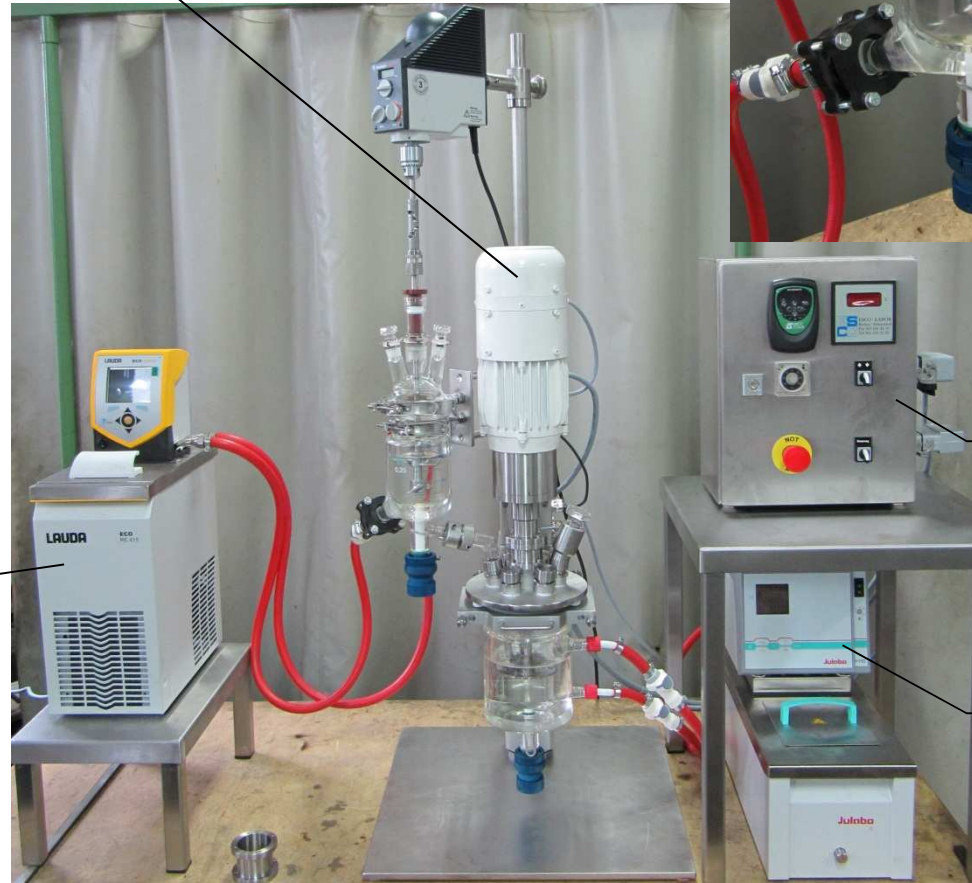
EL 0.5pm conical version and EL1.5pm cylindrical



Mizer disc
Cooling unit

Quiet three phase motor tip speed $V_c=30\text{m/s}$

Pre-mixing with stirrer



Control unit

Heating/ cooling unit



Pierre Fabre

EL-1 and EL-3 pharma



EL-1 pm



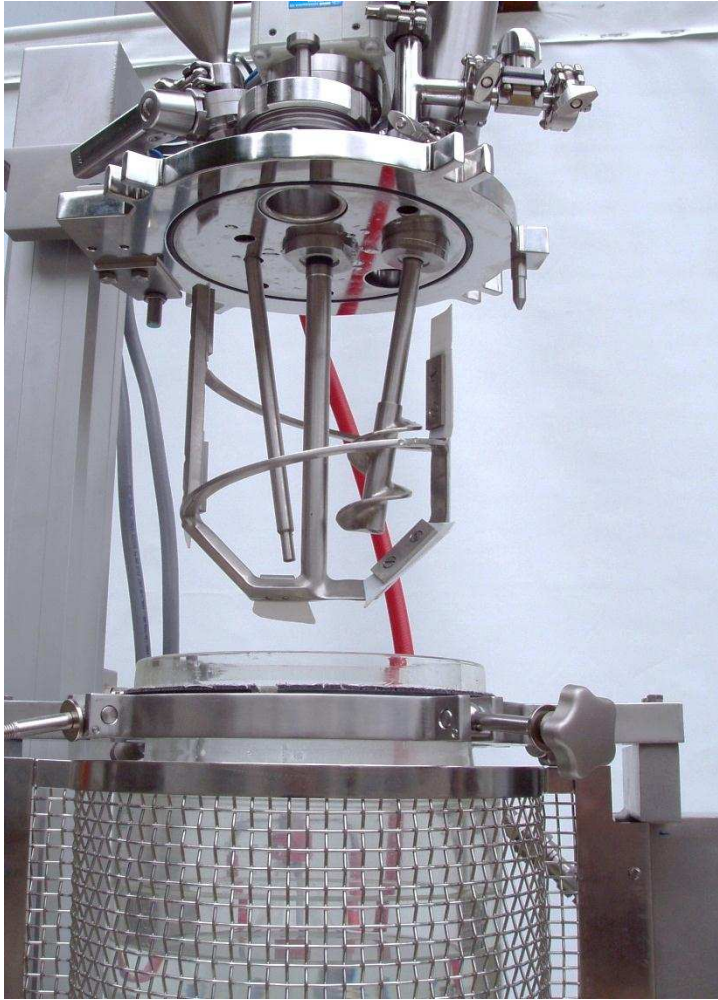
EL-3 pm





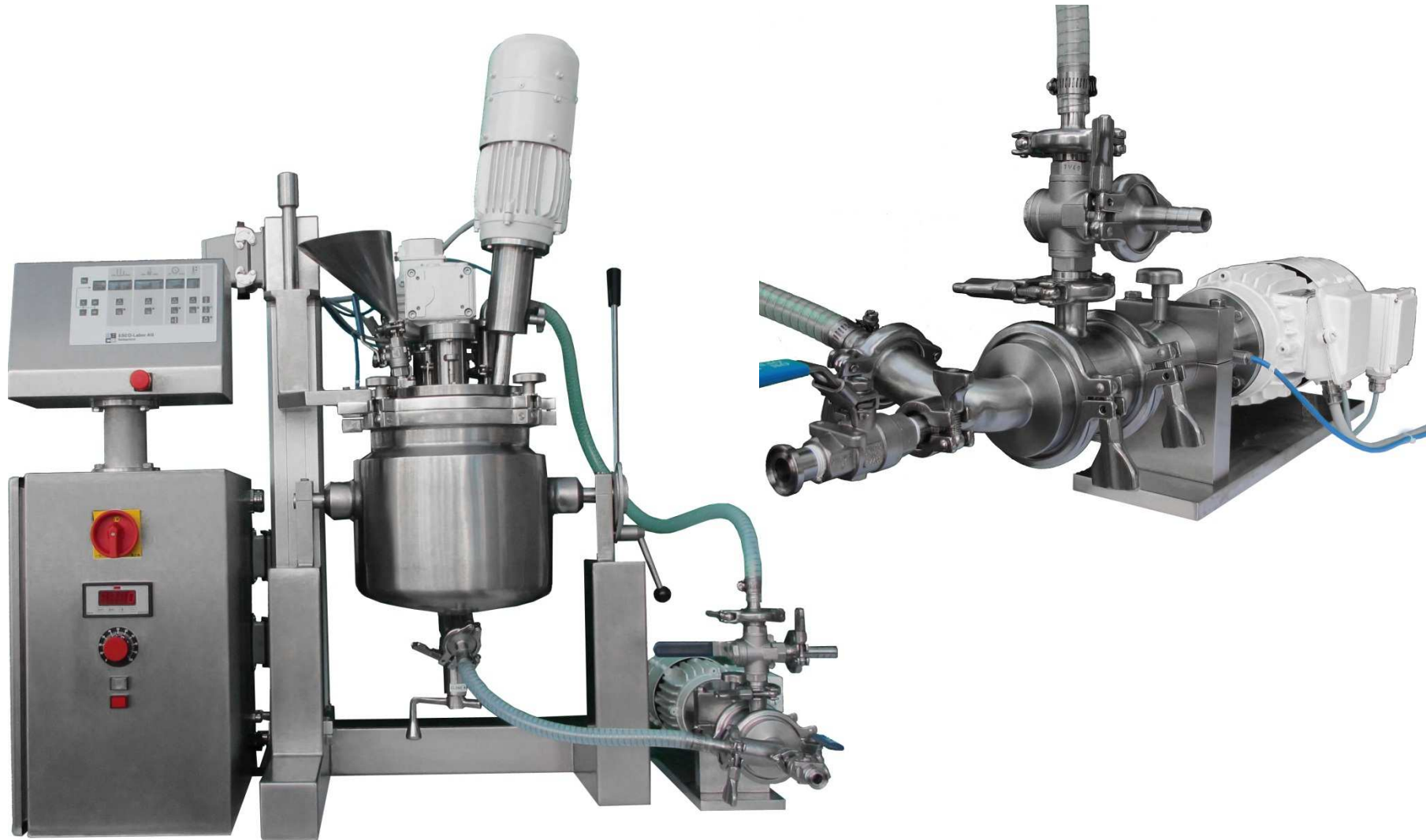
Customised

EL-3pm and EL-6pm for viscoelastic ophthalmic products for eye surgery





EL-6pm with external disperser z48





mixing and filtration unit EL-200 Hastelloy C22





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More Informations

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