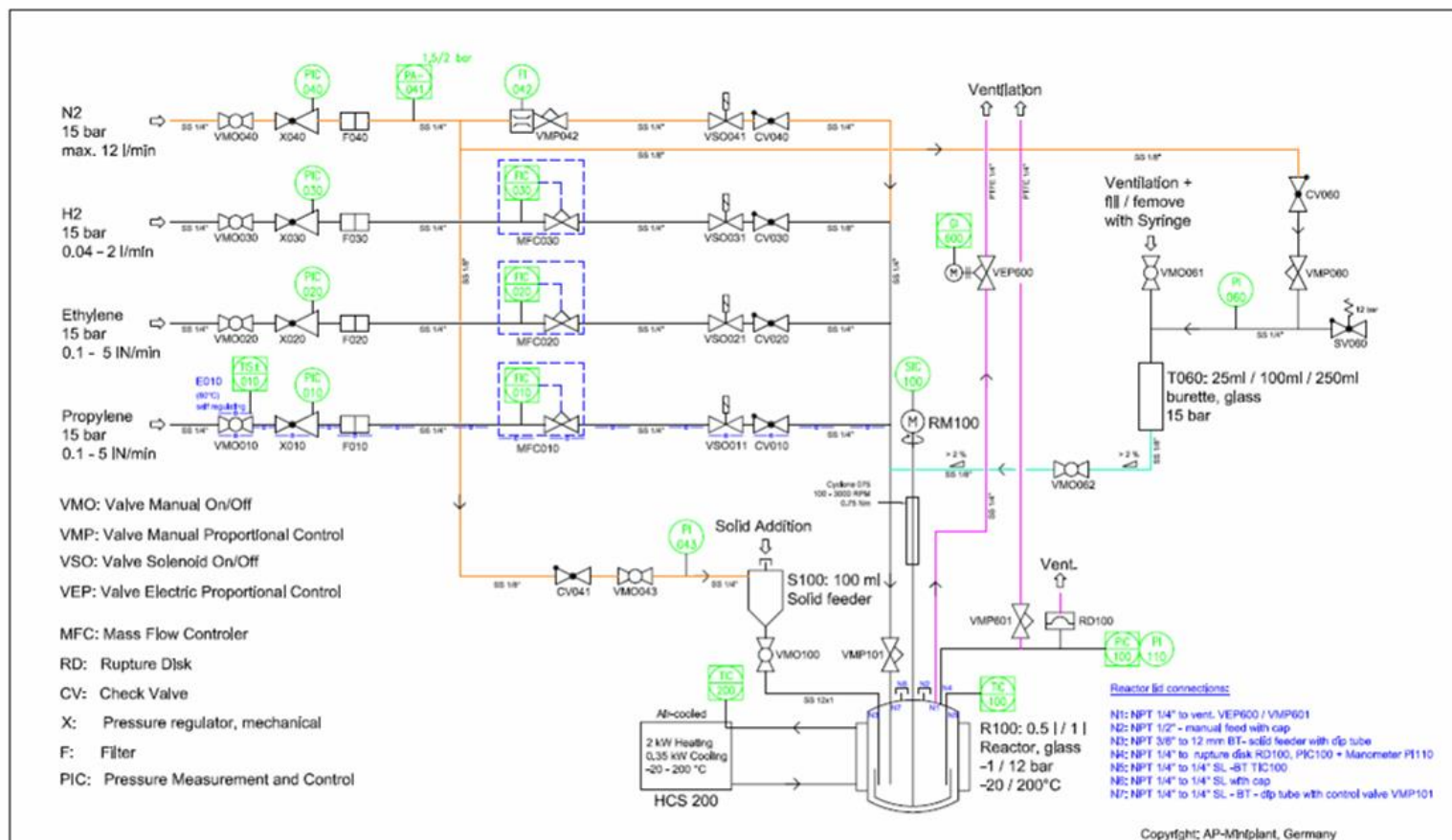


Glass Polymerization Plant

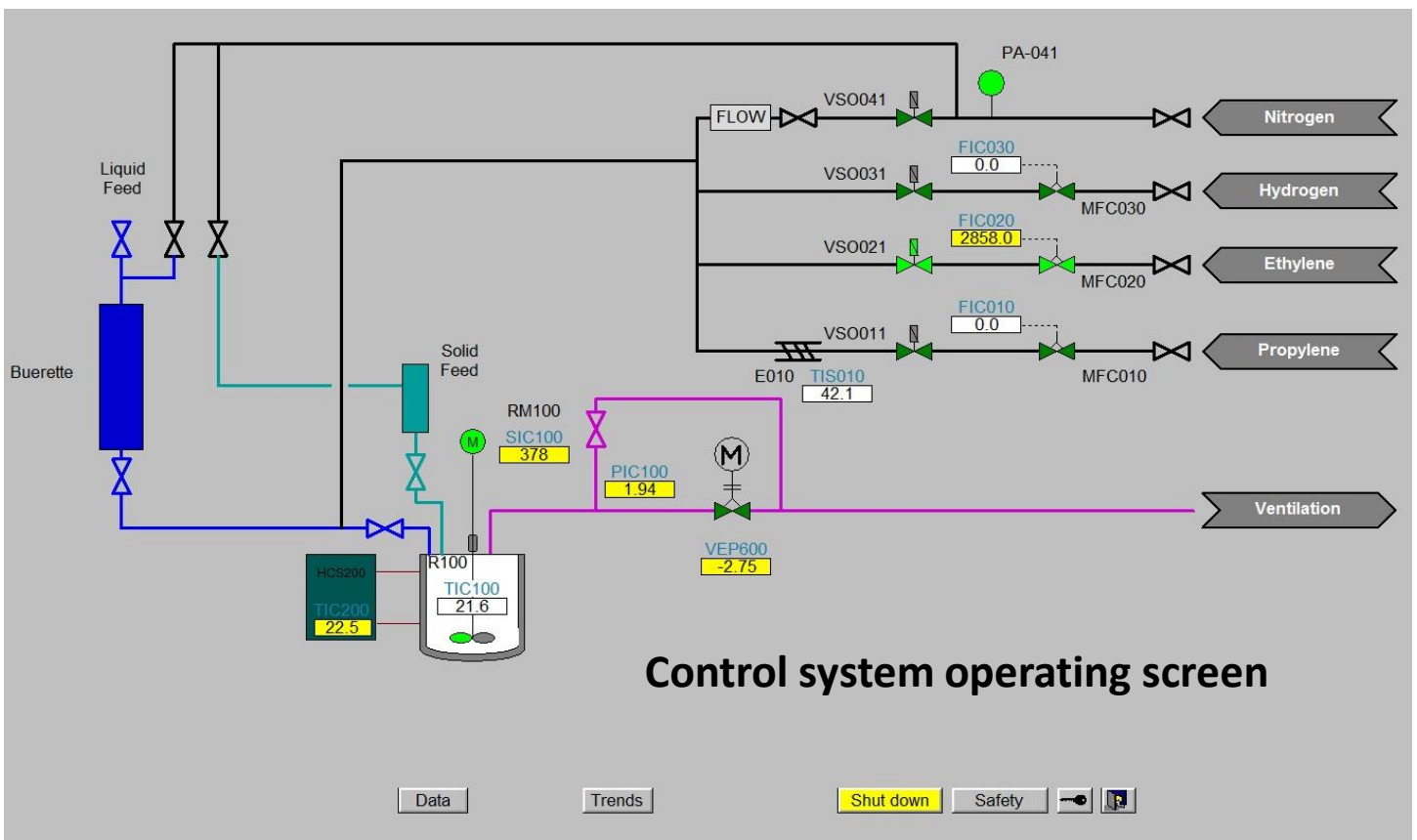
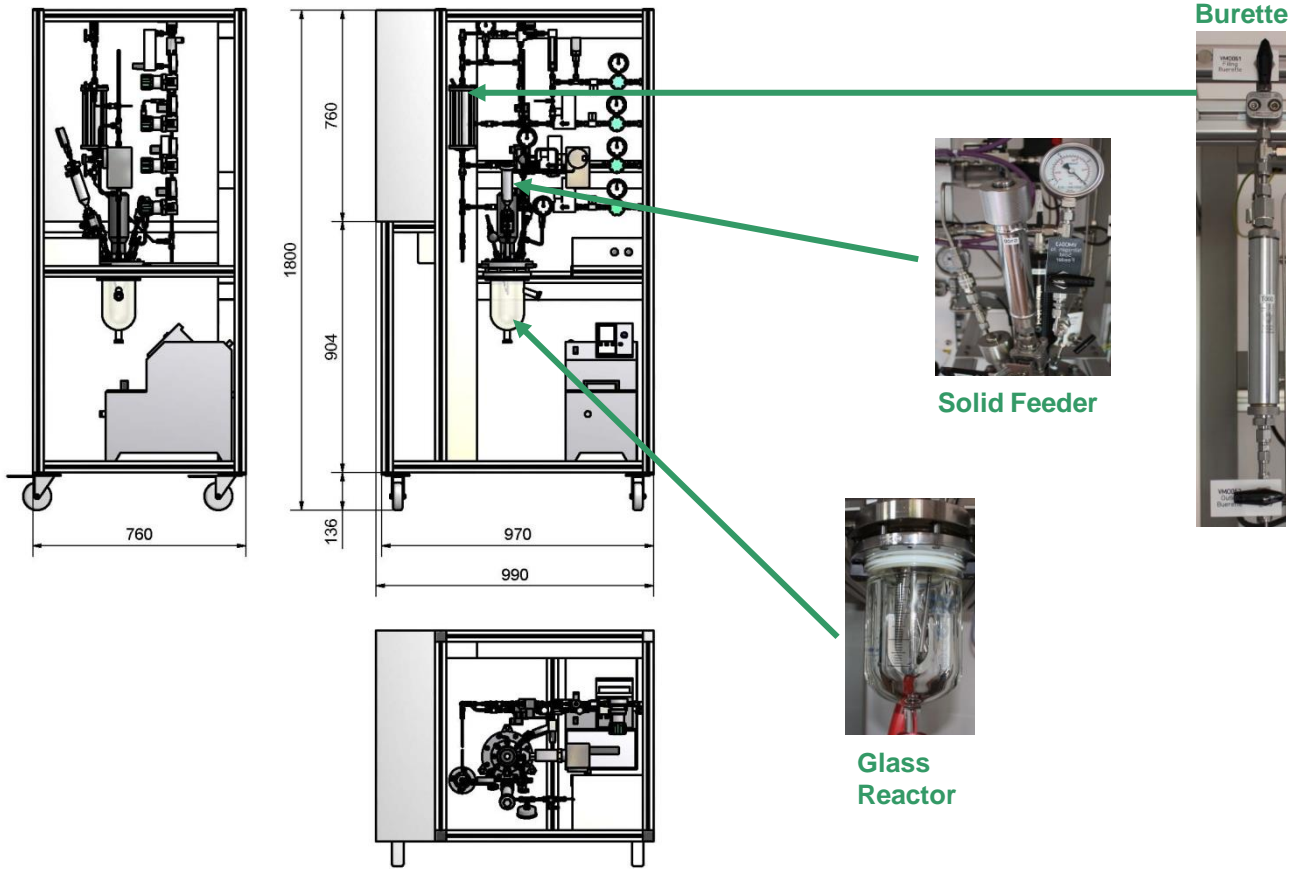


- **Exchangeable glass pressure reactor 1l / 0.5l**
 - Heating & cooling system
- **3 automatic gas feeds, manual solid and liquid feed**
 - **IC industrial control system**



Short description:

- Intended use: Polymerization of ethylene or propylene;
- glass reactor 1 l with automatic pressure control;
- controlled dosing of 3 different gas feeds (e.g. ethylene, hydrogen, and propylene);
- liquid feed addition via burettes (maximal volume 250 ml);
- solid feeder to add slurries and solids under pressure;
- extendible via spare connections;
- max. pressure 12 bar in a safe room;
- design temperature 200 °C;



Technical Data

| | |
|--|--|
| Dimension plant W x D x H | 990 mm x 760 mm x 1800 mm |
| Mass of the unit without computer + spares | 191 kg |
| Electrical supply | 1 x 220 V AC, 60 Hz, 16A, 3,5 kW |
| Electrical connection | Spring-loaded terminal, 2,5 mm ² , from bottom |
| Ambient temperature range | 10 to 40 °C, max. humidity < 80 % |
| Pressure conditions | -1 to 12 bar g in an autoclave room -1 to 6 bar g in a laboratory environment. Reactor suitable for vacuum |
| Temperature conditions | Reactor -20 to 200 °C |
| Reactor type | Buechi® Ecoclave, 1 and ½ liter glass with jacket and round bottom |
| Motor type | Cyclone 075 with integrated magnetic coupling |
| Stirrer speed | 100 – 3000 RPM, limited to 1500 RPM in automatic mode |
| Stirrer torque | Max. 75 Ncm, continuous torque 16 Ncm |
| Gas supplies | Propylene 100 – 5000 Nml/min Ethylene 100 – 5000 Nml/min Hydrogen 40 – 2000 Nml/min |
| Liquid supplies | Exchangeable burettes, 25, 100 and 250 ml |
| Solid and slurry supply | Dosing unit, 100 ml |
| Vent control valve | Samson control valve type 3510 with electrical drive, kvs = 0.025 (m ³ /h) |

® Buechi is a trademark of Büchi AG, Uster (CH)

Product Overview



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