

A remarkable bioreactor

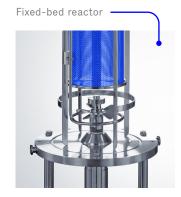
The KLF is the only in-situ sterilizable glass benchtop fermenter on the market. During sterilization, the medium is stirred and the temperature is continuously measured and recorded — comparable to the processes in larger steel fermenters.

The steam-sterilizable bottom drain valve ensures complete emptying and can also be used for sampling. As optional feature, the KLF can be fitted with pressure control up to 1 bar, making it the ideal tool for downscaling applications in the food, pharmaceutical and research industries. A steel vessel with a total volume of up to 5 litres is also available.

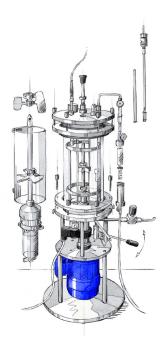
All Bioengineering benchtop fermenters are supplied with the advanced BioSCADA software — license-free and with extensive functionality.



Plant cell reactor



- in-situ sterilizable
- resterilizable harvest valve
- optional pressure control



Technical Data

• Processing capacity: 1.6/2.0/2.5 liters

• Vessel: Glass or stainless steel

• Drive: Bottom drive with mechanical seal or magnetically coupled

• Impellers: Rushton, marine, pitched blade

• Aeration: Venting pipe, ring sparger, sinter sparger, bubble-free gassing

• Temperature control: Electrical heating & cooling fingers

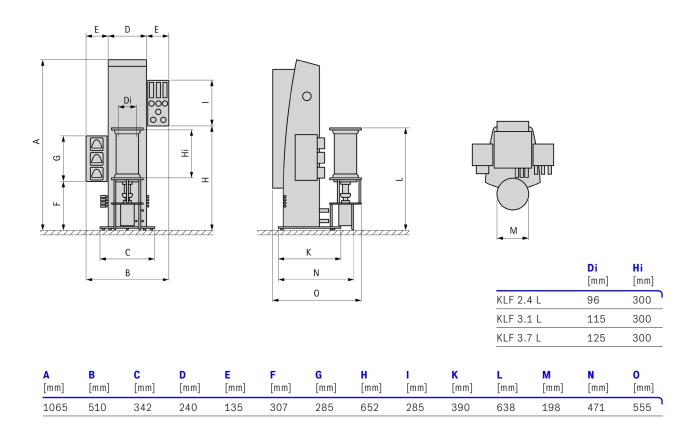
• Gas: Up to 6 individual gas lines with pulsed valves or mass flow controllers

• Pumps: Up to 6 pumps integrated in the control unit and one external pump

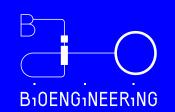
• Configuration: Up to 6 bioreactors controllable with a single control unit

 Measurement and control: Speed, temperature, pH, pO₂, antifoam/level, pressure, redox, OD, weight, exhaust gas, numerous additional interfaces and controllers

• BioSCADA: Advanced control and visualization software



Contact us for further information.



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