

**General:**

- LARS bioreactors are specially developed for the control and study of biological processes, as well as small-scale production.
- 7-12-30L BR type bioreactors can be used with integrated CIP and SIP.
- BioPhantom©, PC based flexible control for 1-5 parallel LARS systems.

**Technical data:**

Material: ASTM 316L  
Surface: Ra<0.5 µm  
Pressure: -1/+3 Bar  
Temperature: Max 150 C  
Calculation according to European regulations (PED).  
Vessel jacket for in situ steam sterilization

**Working Volume**

BR12 3-12 L Total 16 L

**Connections**

Sight glass in front.  
Drain with steam valve.  
Pocket for temp sensor.  
Sparger inlet valve.  
Sampling port for Novaseptic© bag system  
3 pcs 25 mm electrode port on side.  
Lid with M27x1.5 and Ø10mm connection's.

**Stirrer**

BR12 type M02  
Magnet coupled with Rushton type turbine.  
(Easily changed to other impeller types)  
Four baffel system.

**Filter**

Inlet 0.22 µm sterile filter.  
Outlet condenser and 1 µm depth filter.  
Pressure regulation valve on outlet air.

**Connection to LARS system**

2 pcs flexible hoses with R3/8" connector.  
DC servo motor with integrated control  
Cold water connection for condenser  
Steam for drain valve/sampling valve.  
Steam condense manifold.

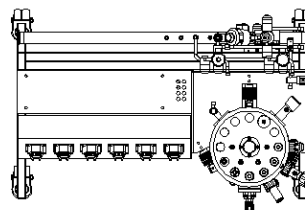
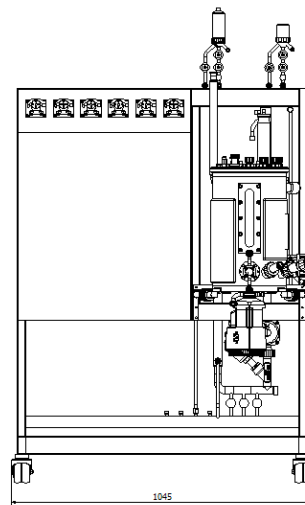
**Drawings**

BR12 DWG 6170-01  
Connections in lid: DWG LARS-  
Layout DWG LARS-101-6

**Order no:** LARS-BR12



System LARS with BR12-B

**Options:**

12mm PG13.5 side connections  
Novaseptic© sampling port system  
Top stirrer  
Mobile frame for balances  
Out gas O2-CO2 analyzer